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In Response to:

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FINAL REPORT:

A Study of Justice Impact Analysis

Technical Appendices

Submitted to:

The Office for Improvements in the Administration of Justice Department of Justice Washington, D. C. 20530

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APPENDIX A

DESCRIPTION OF METHODOLOGIES

A wide variety of methodologies are potentially applicable to studying the impact of governmental rule changes on the justice system. The usefulness of particular methods for particular impact studies depends upon such considerations as the nature of the proposed change, data availability, and other factors. Some of the methods discussed here have already been applied to problems of judicial impact assessment, and some have been used in other types of impact studies. Others have not yet been applied to impact assessment problems, but we suggest that they could be usefully adapted to this purpose.

1. Predicting Through Analogy

This is an approach which is indigenous to the policymakers. It is a nontechnical approach in which the policymaker takes over the actual mechanics of the prediction process, and may request a bare minimum of intervention by scientific and technical personnel.

While these analyses tend to be "soft", they are familiar and understandable to those who are responsible for making estimates of the effects of legislation and rule changes on the justice system.

An excellent example is provided in the testimony given by Paul Nejelski, Deputy Assistant Attorney General, Office of Improvements in the Administration of Justice before the Senate Committee on Veterans Affairs in August 1977. The Committee was holding hearings on S-364, which provided, among other things, that persons who are aggrieved or injured by an adverse decision by the Veterans Administration would be permitted to challenge such decisions in federal district court. Since Veterans Administration decisions are generally not subject to external appeal, this legislation would have resulted in a new subset of case filings in the federal justice system. While the Department of Justice took no position on the legislation at the time of the testimony, they as well as members of the Committee were interested in the impact of such legislation. Nejelski estimated this effect by treating appeals rates for similar claims against the Social Security Administration as an analogy. He stated that one could roughly anticipate 4,600 additional case filings per year, which amounted to a 3.4% increase in the average case load for each sitting judge. Since backlogs are typical, this would result either in additional delay in processing claims of all sorts, or an increase in system personnel costs.

This estimating procedure was simple and straightforward, and certainly provided a ball park estimation of the effect - one which should be clear and obvious to administrators and legislators who have responsibility for operating and financing the administration of justice.

2. <u>Bureaucratic Delegation</u>

One current approach is to rely upon permanent, in-house staff, who presumably qualify on the basis of relevant experience. There are two examples that we are aware of, in California and New Jersey.

The California Approach

The California Judicial Council employs an individual full-time whose job is judicial impact assessment. This individual has a background in public administration, particularly the court system in that State. More to the point, that individual was employed by Ralph Anderson and Associates and made analytical contributions to the study commissioned by the Judicial Gouncil, reported in <u>Guidelines for Determining the Impact of Legislation</u> on the Courts (1974). As the title implies, the emphasis is on guidelines, and not on sophisticated mathematics. A summary of these guidelines, extracted from the Anderson report, is included here in Figure A-1.

The Anderson study sets out a series of steps to be used to formulate "Judicial Impact Reports", and places a premium on establishing a continuing procedure for a Judicial Impact Analysis Team. As recommended by the Guidelines, the Team, operating under the auspices of the Judicial Council, would consist of individuals with a broad governmental management background, and their approach would be a systematic, in-depth evaluation of individual pieces of legislation which are likely to have caseload impact, case disposition impact, and/or fiscal impact.

Figure A-1

FOUR-STEP PROCESS FOR DETERMINATION OF TOTAL IMPACT OF LEGISLATIVE PROPOSALS ON THE COURTS

Step One READ	THE BILL AND OBTAIN CERTAIN INFORMATION
	 Is the latest version of the bill being analyzed? What does the bill provide? Does the bill make technical or substantive changes? What court(s) would be affected? When would the bill become operative?
Step Two DETE	RMINE HOW THE BILL WILL AFFECT THE COURTS
 COURT PROCEDURE Will the bill add new or modify procedures for bringing a person t Will the bill add new or modify procedures for conducting a trial? Will the bill add new or modify procedures for post-trial sentencir peal? Will the jurisdiction of a particul court (e.g., municipal, superior) b Will the jurisdiction of courts in changed (e.g., as a result of addining matters from the court process Will the bill establish new or modify anthority of judges? 	 o trial? established established established established established established established established ing of additional court personnel? Will the bill require that certain court- related facilities shall be provided? Will the bill require certain records to be kept and/or furnished to others? Will the bill specify operating hours for the courts? Will the bill revise the organization of the courts? enue be provided? Will the bill require that certain court- nated? Will the bill require certain records to be kept and/or furnished to others? Will the bill specify operating hours for the courts? Will the bill revise the organization of the courts?
Step Three DETERN	AINE THE IMPACT OF THE BILL ON THE COURTS
 CASELOAD IMPACT Will the bill make access to the court easier or more difficult? Will the bill shift a matter from one court to another? Will the bill increase or restrict appeal possibilities? Will the bill expand or restrict matters presently subject to the court process? 	 CASE DISPOSITION IMPACT Will the bill affect an element of the pre-trial process? Will the bill affect an element of the post-trial process? Will the bill affect an element of the post-trial process? Will the bill change the responsibility of the court, the judge, or non-judicial personnel? Will the bill increase or decrease court personnel and/or facilities? FISCAL IMPACT Will the bill require more or less personel? Will the bill necessitate an increase of permit a decrease in services and supplies? Will the bill change the responsibility of the court, the judge, or non-judicial personnel? Will the bill increase or decrease court personnel and/or facilities?
🔿 Step Four	PREPARE A WRITTEN ANÂLYSIS
JUDICIAL IMPACT REPORT-	SUMMARY ANALYSIS • JUDICIAL IMPACT REPORT-ANALYSIS

- Summary of the effect of the bill on the courts • Summary of the total impact of the bill on the courts
- Affect on the courts
- Analysis of total impact

The procedure involves four steps:

- 1) Read the bill for a thorough understanding of its provisions.
- 2) Determine generally how the bill would affect procedure, administration and/or financing of the courts.
- 3) Determine specifically the bill's caseload impact, case disposition impact, and/or fiscal impact.
- 4) Present analysis of total impact in written form.

The Anderson method creates a major role for relevant experience, and computer applications would derive from questions that arise in the course of a particular analysis. In other words, machine capabilities serve to enhance analysis that is based on experience, rather than creating rigid constraints as seems to be the case when they are used as the primary or only means of estimating judicial impact.

Further, it is reasonable to expect that the Judicial Impact Analysis Team, operating over an extended period of time would improve its estimates, based on the results of empirical evaluations of actual impacts. They are also likely to discover additional computer applications, but importantly these would derive from - and be valued precisely because of the aid they provide in the actual preparation of judicial impact statements. In such circumstances, institutional support for more complex computer applications in response to felt needs is built into the process, while at the same time the outputs, the Judicial Impact Reports, are presented in terms which are acceptable to legislators and policymakers, who should be the chief beneficiaries. The Anderson model is an impressive piece of work because the "Technology" is consistent with the perception of the problem held by relevant decisionmakers. This is not to say that successful implementation would automatically follow.

The key component is the Judicial Impact Analysis Team, and the success of the Anderson model depends upon selection of appropriate personnel and their performance over an extended period of time. The members of the Team must be selected on the basis of their broad range of governmental and judicial experience. They must also be individuals who are capable of integrating these experiences and working with one another toward a common objective. This raises questions of "group chemistry", which is highly unpredictable, and which could radically affect the quality of the Team performance.

A sufficient time period must also be provided for the members of the team to develop and improve both formal and informal procedures necessary to produce best estimates of judicial impact. Further, a feedback process must be designed so that impact analyses are reviewed and corrected once historical data on actual impact is available, though this could be done in relatively short order for postdictive impact estimates.

The Anderson model implies no less investment in time and money than would be required to develop a complex simulation model. In fact it would appear that personnel of the quality required to produce good

estimates of judicial impact might entail considerable cost, and a commitment on the part of the sponsor to provide a trial period of no less than two years.

3. <u>The New Jersey Approach</u>

In New Jersey, the Legislative Code of Ethics makes provision for any member of the State Senate to require that a "fiscal note" be attached to any proposed legislation that "if enacted, would increase or decrease State revenues or increase State expenditures or would require the appropriation of State funds not set forth in dollars" in the text of the bill. The requirement goes to the Executive Director of the Office of Fiscal Affairs. There are some types of legislation where a "fiscal note" is mandatory; otherwise, it is a matter of discretion resting with the members of the Senate.

The Fiscal Affairs director then, according to the rules, passes the request on to the Director of the Division of Budget and Accounting in the Department of the Treasury, where the actual work is done. The rules are totally mute on methods, procedures, form or content of the resulting "fiscal note. "Figure A-2 shows an example of such a product, which goes back up the line to the Senate. It should be noted that in this example, the authors of the note give "no dollar estimate," but do predict that "extra staff would definitely be required" under the legislation considered.

Figure AH2

FISCAL NOTE TO SENATE, No. 551

STATE OF NEW JERSEY

DATED: APRIL 25, 1978

Senate Bill No. 551 requires that one-half of all fees collected in the Law Division or Chancery Division of the Superior Court be returned by the State Treasurer to the treasurer of any county in which the fee was paid.

The Judiciary advises that if this legislation were enacted, it would create many problems and inequities.

It further advises it would be almost impossible to administer.

While no dollar estimate is given, the Judiciary states that with present volume running about 200,000 transactions per year, extra staff would definitely be required.

In compliance with written request received, there is hereby submitted a fiscal estimate for the above bill, pursuant to P. L. 1962, c. 27. California and New Jersey should be distinguished in the sense that California proceeds on a set of guidelines, while New Jersey does not, and also that the latter State places the "trigger" for analysis within the legislature itself. (In this connection, it may be noteworthy that the U.S. Senate via its own rules has imposed on legislative sponsors a requirement to attach a paperwork impact statement to legislative proposals.)

Certainly, as part of this project is would be desirable to make contact with the California Judicial Council and the New Jersey Department of Treasury for details on actual methods developed by staff for conducting justice impact studies.

4. <u>Environmental Impact Statement</u>

An environmental impact statement (EIS) is a type of cost-benefit analysis that has received a good deal of attention in the context of the Alaskan pipeline, the supersonic transport, and in a number of nuclear reactor proposals. It has also been used on occasion in court cases, such as <u>Reserve Mining</u> v. <u>EPA</u> on industrial pollution of water sources. EIS is a requirement of the Environmental

** 514 F. 2d 492 (8th Cir. 1975). See Thomas, William A., "Scientific and Judicial Treatment of Uncertainty," <u>Proceedings of the Fourth</u> Symposium on Statistics and the Environment (1976).

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^{*} Fischhoff, B., "Cost Benefit Analysis and the Art of Motorcycle Maintenance," 8 Policy Sciences, pp. 177-202 (1977).

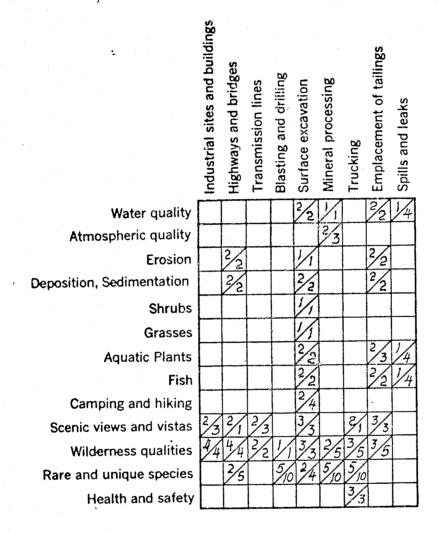
Policy Act of 1969, and is intended to evaluate the potential <u>noneconomic</u> impact on environmental <u>quality</u> associated with some proposed program or policy -- i.e. costs and benefits formulated in ecological terms. In furtherance of the Act, the Council on Environmental Quality developed a method for EIS production which was published by the Department of the Interior. ^{*} Before describing it, we should note that the CEQ procedure has been used extensively, and it is fair to say that the Legislature is now quite familiar with it.

Under the CEQ technique, a matrix is developed in which the individual actions in a proposed program are first arrayed across the top of a table; down the side are the pertinent "existing characteristics and conditions of the environment." The table is filled in for each action by checking what aspects of the environment will be affected, in terms of (1) <u>magnitude</u> of the impact (which is to be an objective determination), and (2) <u>importance</u> (which is a subjective rating of how much the impact will matter, apart from magnitude). On each of these two points, the interaction of program and environment is rated on a scale running from 1 to 10, and may be either positive or negative. An example of such a matrix is shown in Figure A-3 below.It is taken from the Geological Survey Circular 645 in which the CEQ method is published, and is part of an actual EIS produced

^{*} Leopold, L., <u>et al.</u>, "A Procedure for Evaluating Environmental Impact," Geological Survey Circular 645 (1971).

Figure A-3

Actual Example of an EIS Matrix



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for a proposed phosphate mining lease in California. It shows nine kinds of mineral extraction and processing activities that would be carried out under the lease, and thirteen aspects or uses of the environment that would be affected by the mining activities. For example, "trucking" is rated as having a mid-level (5) impact on "rare and unique species, " in terms of magnitude, but the importance of it (the subjective element) is given the highest possible score (10). The term "importance," as used by CEQ may confound both subjective and objective elements, as well as considerations of total magnitude of impact, that some refinement or redefinition may be needed. Neither the CEQ procedures, nor the example we cite, encourages the analyst to develop row- and column-totals for overall evaluations; rather, the emphasis is on discussion and interpretation of the individual cell entries. The EIS concept has been criticized for failure to develop overall or "bottom line" evaluations; CEQ notes possible lack of comparability of ratings from one row or column of the matrix to another. We would want to explore ways of enhancing comparability, since the matrix approach naturally invites aggregation of ratings. The RFP acknowledges that an EIS is clearly dependent on the bias of the source of importance ratings, and the objective part -- the magnitude ratings -- may involve an expensive and time-consuming data gathering process.

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CEQ's method is particularly attractive for two reasons: one, it is a technique that the Legislative Branch (and presumably many parts of the Executive Branch) is already comfortable with; and, two, it is a potential means of dealing directly with the issue of the <u>quality</u> of justice, which is one that is particularly difficult to analyze in economic terms. Other methods discussed in this proposal (e.g. Delphi) may be useful in improving on the subjective elements of the procedure. Whether data requirements would be a serious obstacle in the context of justice would have to be considered; we would expect that there must be some kinds of proposed laws or regulations where they would not.

5. <u>Regression Methods</u>

Regression models express the value of a dependent variable (the effect) as a mathematical function of one or more independent variables (the causes) and an error term - a random variable whose distribution is assumed to have certain characteristics. Given a set of sample values for the dependent variable and a particular set of independent variables, statistically optimal values can be found for the coefficients in the regression equation. The standard technique for choosing these optimal values is the least squares method. This technique involves finding the values of the coefficient which produce the smallest sum of the squared differences between the actual values of the dependent variable in the sample and the "theoretical" values assigned by the regression equation. By comparing the minimum sums of squared differences attainable by using different independent variables, one can evaluate the utility of alternative independent variables as predictions of the dependent variable.

"District Court Caseload Forecasting: An Executive Summary," prepared by the Battelle Institute for the Federal Justice Center represents an example of the application of regression methods to the problem of caseloads in different sections of the justice system.

The report compares two different types of regression approaches: an auto-regressive model and an indicator model. Auto-regression is a technique for forecasting future values of a variable by identifying patterns in the past fluctuations of that variable (e.g. trends, cycles, etc.). The independent variables in an autogression equation are functions of the values of the dependent variable of specified previous points in time. By contrast, the indicator method uses variations in the values of <u>other</u> factors to predict variation in the dependent variable.

Both methods used twenty years of data (i.e. 20 individual data points) to predict future district caseloads for each of 42 different types of cases. An advisory committee of experts on the justice system was consulted in developing the list of potential independent variables or indicators. The initial list had to be modified to meet the requirements of data availability. A total list comprised over 150 different indicators.

Although the complete results are not reported in the Executive Summary, the examples which are presented and the general discussions suggest, that their efforts were fairly successful - according to the criterion of variance explained. That is, they were able to construct regression equations which generated theoretical values for the dependent variables which were very close to the actual values. In general they concluded that the indicator method was more useful than the autoregressive approach. There are some problematic aspects to the way these methods were applied, however, that make some of the results questionable or of lesser value.

The precision of the forecasts generated by autoregressive techniques depend heavily on the number of observations included in the analysis. In numerous instances, too few years of data were available to make the results useful. This problem might be overcome somewhat by using monthly instead of yearly data. However, the more time series data is disaggregated, the more complicated the pattern which the equation must capture (e.g. seasonal effects), and thus the more parameters needed to explain the same proportion of the variance.

There are a number of difficulties in accepting the conclusion that the indicator method predicts better than the autoregressive method. According to Johnston (Johnston, <u>Econometric Methods</u>, 2nd ed., McGraw-Hill, New York), if there is serial dependence in caseloads (i.e. if the caseload is related to time) then ordinary least squares methods (instead

of generalized least squares) overestimate the predictive ability of the indicator model and incorrectly estimate the variance explained by the autoregressive model (see Douglas A. Kibbs, Jr., "Problems of Statistical Estimation and Causal Inference in Time-Series Regression Models," Ch. 10 in Herbert L. Costner, ed., <u>Sociological Methodology</u> 1973-74, San Francisco, Jossey-Buss, 1974).

The authors also point out that the results of the two approaches are not directly comparable because the dependent variables used in the different analyses were somewhat different. While the dependent variable in the autoregression equations was caseload per year, the dependent variable in the indicator equations was actually the three-year moving median of caseload per year (i.e. for each year, the value for that year as well as the two years surrounding it were considered, and the median value for all three years was used as the caseload value for that particular year). The use of the three-year moving median is a smoothing technique which tends to mask the yearly fluctuation in the smoothed variable. To the extent that both the dependent variable (caseload) and the independent variable(s) are related to time, smoothing will tend to increase the variances explained. Since smoothing was not done in the autoregressive approach, it is not surprising that it does not perform as well.

While the Battelle group did find indications that accounting for most of the variance in many of the caseload categories under consideration,

confidence in the predictive power of these models is somewhat undermined by their theoretical weakness. Many of the indicators included in these models do not make intuitive or social scientific sense as causes of caseload variation. Because the variables to be included in each model were selected by the computer and not by the researchers or justice system experts, the most theoretically reasonable variables might be left out if others already explained most of the variance. The authors note that this problem is associated with the fact that many of the indicator variables were highly correlated over time. In general, the dependent variables as well as many of the independent variables tend to be highly related to time and this relationship results in a high correlation between independent and dependent variables, which need have no theoretical or causal significance.

While this might not be a problem if forecasting is the purpose of such analysis, it is a serious issue if the aim is to predict policy impacts. To pick an extreme example - using these techniques we are likely to find that the number of judges is a good predictor of caseload (because caseload increases over time and there is pressure to increase the number of judges over time). This does <u>not</u> mean however, that a policy decision which involves decreasing the number of judges will result in a decreased caseload, but perhaps only in an increased backlog.

The approach used in the Battelle report was primarily designed for forecasting and not for impact assessment. Modifications are clearly

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needed if these techniques are to be used for predicting the effects of policy on administrative changes. The Battelle analysts are aware that they must take into account the possibility of such legislative changes or "surprise events" in making their forecasts. However, the focus of the present task is exactly reversed. Instead of putting the major emphasis on forecasting trends, but considering the possibility of "surprise events." We must attend primarily to the effects of particular legislative changes, the probability of which is considered quite high, while keeping in mind the overall trends in caseloads which would occur apart from this proposed change.

In order to correct the regression estimates in terms of the possibility of "surprise events" the Battelle groups asked experts to identify a set of potential surprise events (supreme count decisions, legislative actions, wars, etc.), to give individual estimates of the probability of each of the events, and to estimate their expected impact on caseload. In making use of the estimates of several experts there is always the problem of aggregating their responses into a single overall estimate. Aggregation is more problematical and less meaningful the more disagreement, or variance, there is among the individual estimates. The report states that while agreement was fairly great among the probability estimate, there was wide variation in the impact estimates in both degree and <u>direction</u>. No feedback procedures were used in the process; there are a variety of estimation procedures involving experts and using feedback mechanism

(discussed elsewhere) which might be used to achieve a more refined aggregate estimate than is obtained by simply using the median response, as was done in the Battelle project.

In the Battelle report, the expert estimates regarding the expected impacts of surprise events were used to adjust the regression forecasts and the adjusted values were compared to the unadjusted values. While this approach is a useful corrective device for forecasting purposes it is a rather ad hoc and unsystematic method for making impact assessments. Alternative approaches, designed specifically for impact assessment, should be explored that make more direct use of regression techniques and of the data which they employ. For example, rather than asking the experts to make direct predictions about the impact of the proposed change on the dependent variable itself - i.e. caseload, they might be asked to explore what independent variables might be affected by the proposed legislation - e.g. number of judges, proportion of cases requiring a jury, amount in controversy, etc. In some instances this task might be fairly straightforward - for example, it might only require a careful and knowledgeable reading of the bill. Once the relevant independent variables have been identified and estimates of their values have been made, then regression techniques can be used to derive predicted values for the dependent variable, based on the estimated (or known) values of the independent variables. Of course, the use of regression methods requires that data be available on both types of variables. However, the kind of data

needed is the same as that used by Battelle in their indicator based forecasting models. Undoubtedly, other studies of the justice system also exist which have analyzed data using regression methods. This approach to impact assessment is thus designed to build upon, as well as contribute to an existing body of data and social scientific findings about the justice system. In the process of carrying out a series of impact studies this body of knowledge can be continuously integrated and expanded, thus making the impact assessment process progressively easier and also more accurate.

6. Models of the Criminal Justice System

There are a number of computer models of the criminal justice system. With variations on the theme, the purpose of these models is to map the flow of offenders through the CJS. This is done by determining the probabilities at each branching point in the system from a base case file. For example, if a certain number of crimes of a certain type are committed, there is some probability in a given instance that the offender will be arrested. Then, of those arrested, some proportion will be referred to juvenile court, some will be given a summary hearing, and the remainder proceed to preliminary arraignment. This type of analysis continues along the various decision paths in the system until final disposition of the offender is effected; dismissal, acquittal, or if convicted, institutionalization or probation, finally culminating in release. At each stage, the flow of offenders is translated into data on workload and costs. One of the first models of this sort was JUSSIM, developed by Carnegie Mellon University, which modeled the CJS as a linear steady state production process. To utilize the model, a base case file is created by the user who must classify types of crimes and their pattern of flow through the system. Then the operator, interacting with the model, may introduce changes in the caseload, or changes in system procedure and determine the effect of such changes on the flow of offenders through the CJS.

According to published reports, the JUSSIM model has been used in Allegheny County (Pittsburgh) and in California. It has also been sold to numerous other public and private organizations, but apparently has not been widely applied.

The modest rate of acceptability is due to a number of problems presented by the model. While based on very simple mathematical principles, it requires an extensive data set, which must be supplied by the user, in order to establish the base case file. Then to measure the effect of caseload or system changes requires a good deal of skill on the part of the operator who must estimate changes in system parameters (specifically branching ratios). Further, the model does not take into account feedback due to recidivism, a major system characteristic; it is unable to deal with queuing delays due to the common phenomenon of system saturation; and it is not able to cope with the effects of random events.

One direct offshoot of JUSSIM is PHILJIM, which was designed for the Philadelphia Planning Council and the Alaska State Department of Corrections. These models are similar to JUSSIM but incorporate the capability to handle case backlogs. Intended as a management tool to aid in policy decisions, data collection problems and inadequate institutional support have rendered these projects dormant.

JUSSIM II, also designed by Carnegie Mellon University, includes a feedback capability, based on a Markov transition model, to take account of recidivism. This second generation model also provides for projections beyond a single year. Its shortcomings, similar to JUSSIM, are attributable to its degree of simplification and the fixed characteristics of its parameters. It is a new model and it is not clear whether it will result in more widespread application than its predecessors.

The Dynamic Offender Tracking Simulation (DOTSIM), designed by the Public Safety System of Santa Barbara, California includes a provision for handling queuing delays and random processing of offenders. The data requirements are even more formidable than with JUSSIM: branching probabilities must be established as well as resource requirements at each stage.

DOTSIM was demonstrated using sample data, but not fully implemented. It has not been adopted in Ventura County, or by other State planning agencies which expressed initial interest. One reason for this may be the degree of expertise (considerably greater than with JUSSIM) required to implement and operate the simulation.

There are other models of this sort; however, their characteristics are similar to those outlined above. Reviewing these models, one is left with two impressions. First there is a radical trade-off between simplicity and effective performance. The JUSSIM models are simple, but their ability to deal with random events and subtle system changes is all but nil. More complex models, such as DOTSIM, are intended to provide a better, dynamic approximation of the real world, but require operators with considerable sophistication. This latter point suggests a second fundamental problem; a lack of fit between the technical requirements of the model (data and operation) and the requirements of legislative and judicial personnel who are expected to use them. While an experienced operator may become adept at formulating changes in base case data files and branching ratios, these considerations are not typically familiar to legislative and judicial policy planners. Individuals who confront policy responsibilities must be confident and combortable with the procedures used to estimate changes in resource requirements, or they will use other means.

This problem may result from the fact that computer models of this sort are necessarily formulated in a fashion which is consistent with machine and data requirements, rather than being derived from the requirements of policy planners. In any event, the limited number of documented applications suggests that those with policy responsibilities simply do not feel that the limited results generated by such models justify their costs.

7. Cost-Benefit Analysis

Cost-benefit analysis involves a five-step process of estimating the costs of a proposed program or policy: (1) identification of possible significant consequences; (2) estimation of the probability of each consequence; (3) estimation of the losses that would result from each such outcome, (4) the weighting of the losses by multiplying them by their probabilities, and (5) the summation of the weighted losses across all outcomes to obtain the overall expected loss that could be anticipated from that policy. The steps on the benefit side are the same, except that the focus is on what would be gained, rather than lost. Ultimately, expected losses are to be compared with expected gains. This process is a desirable concept since it forces policy makers to take a hard look at advantages and disadvantages in a formalized way that can contribute a scientific basis for decision. Another very desirable feature is that, in theory, it makes it possible to reach a "bottom line" that indicates which way the policy maker should go, from a scientific point of view.

Our view is that in adapting the cost-benefit approach to judicial impact assessment, the benefit side of the equation should be viewed in terms of reduction in costs, or of one type of costs relative to another. For example, if we find an alternative to some proposed policy with lower costs, the difference in costs is a potential "benefit" attributable to the alternative.

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Cost measurement concepts and procedures must be tailored to the purposes of justice impact assessment. Certain fairly standard issues

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must be addressed in so doing. Some of these are as follows: Should we cover both costs to the system itself and to the institutions and members of the public who are its users? Should capitol or developmental costs be "expensed" (i.e. counted in total against a single budget year) or amortized, and if amortized, over what period of time? Similarly, if a program would handle an immediate and heavy backlog of cases, should the associated costs be amortized? Can costs borne by different parts of the justice system, or by different people, or by a proposal and its alternatives, be measured in such a way as to permit comparisons or meaningful aggregations? Can the concept of nonmarket prices be applied in this context, and can the concept of quality indexes be used effectively to evaluate factors such as quality of justice?

The Box-Jenkins approach to forecasting will be evaluated for its potential as a tool for making cost projections into the future. In our judgment it is the best available method for treating time series where projections are to be made, particularly if there is seasonality or other forms of autocorrelation that must be accounted for. It does however, require that data be available for a considerable number of time periods, which will undoubtedly limit its utility in this context.

There are certain difficulties with the cost-benefit approach that could be expected in the area of judicial impact measurement. We certainly recognize the difficulty of assigning dollar amounts to certain types of losses;

for example, what is "justice, " or a human life, worth? A common problem in cost-benefit analysis is that mere mortals are not always able to identify all possible significant consequences of some proposed course of action. This should be remedied by mixing into the analytical process people from both inside and outside of the justice system, to be sure the overall point of view is neither too narrow nor unrealistic. Also, the method can be criticized for its "bottom line" emphasis since the costs may be distributed unevenly with some parts of the system disproportionately impacted, relative to any compensation. This may be remedied through appropriate weightings, or ameliorated by highlighting disproportionate impacts along with the overall cost figure. In essence, we are saying that the concept of calculating expected losses merits serious consideration, with consideration given to whether difficulties such as these can be overcome.

8. Queuing Theory and Network Models

Queuing theory is a mathematical technique which can be used to estimate the changes in backlogs which might occur in various parts of the justice system as a consequence of proposed legislation. The queuing approach models the basic element of the justice system as a network which describes case flows. This network consists of nodes: functional offices, stages of pleadings, levels of dispositions, etc. and arcs, which indicate the connections or paths between these decision points. Queuing networks describe each of the activities in a network as

a queuer served by one or more servers (i.e. judges, magistrates, clerk of the court, marshalls, etc.). Once the network is described, predictions of backlog and waiting time depend on the values of the following types of parameters:

- (1) arrival rate i.e. the number of cases which enter the system per month,
- (2) capacity the number of cases which can be handled simultaneously at each node, and
- (3) processing time.

While capacity is fixed, both arrival rate and processing are treated as random variables, of known distribution. The assumption of randomness is a nice one, because in real systems neither arrival rate nor processing time are fixed - they fluctuate because of a whole variety of factors - the complexity of the particular case, for example.

Since arrival rate is a parameter of the system, queuing theory cannot be used to predict caseload. However, once estimates of caseload and processing time are made using other methods (regression, expert opinion, or any other procedure), queuing theory makes it possible to estimate the impact of rule changes on the average number of cases waiting in the queue, on the average time each case waits, and on the average time each case is in the system (processing time plus waiting time). The queuing model also makes it possible to explore the different effects of alternative proposals or of mechanism which might be used to remedy

some of the undesirable effects of an otherwise desirable legislative proposal. For example, suppose a bill is proposed which would "increase justice" by expanding the jurisdiction of the federal justice system or permit appeals on a broader range of cases. Such a bill would probably have the adverse effect of increasing caseload and/or processing time and therefore of increasing backlog. A queuing model could be used to explore, for example, how many additional judges would have to be added to reduce the backlog to its previous proportions.

Queuing theory also makes it possible to consider systematically whether the cost of proposals to decrease processing time or backlog in fact effectively reduce total costs. This capability is particularly useful in estimating the impact of proposals to create additional district and circuit court judgeships and to reform and improve administrative procedures. Specifically, decision makers must weigh the costs of expansion against the reduction in waiting time. Waiting time is costly to society, and these costs can often be measured or at least approximated. For instance, persons who sit in jail waiting for trial consume resources and may forego earnings as well. Attorneys, police, prosecutors, defendants and litigants in civil cases spend time waiting in court for their case to come to trial. In cases like these, a waiting time can be measured with relative ease. In other instances, measuring queue costs may be more difficult. Nonetheless, the example in Table 1 shows how knowledge of these costs, together with knowledge of the caseload and processing rates, can be used to compare the total costs of the existing system with the total costs of, say, a proposed increase in the number of judges in a district court. Using hypothetical numbers, Table A-1 presupposes that 10 new cases arrive each day, and that the costs of waiting are \$20.00 per case, The example further assumes that the existing courtroom costs are \$300 per day and disposes of 12 cases each day. An additional two judges might raise courtroom costs to \$500 per day but also increase the "service" rate to 20 cases per day. Using queuing theory, however, the table shows that the total costs of the expanded court exceed those of the present court. More generally, queuing theory can inform estimates of judicial impact by providing a framework for determining whether the costs of expansion are worth the benefits of speedier trials.

9. Delphi

In ancient Greece, one went to Delphi for guidance from the oracle, and when that guidance was obtained, one did not question its basis. In modern usage, the term refers to any process of synthesizing the views of diverse individuals on some subject on which they are denominated experts. When properly done, the results are fed back to the experts so that they may revise their views, which are then resynthesized. This process is to be continued until the participants reach a consensus.

Table A-1

Hypothetical Example

Cases arrive: 10 per day Cost of waiting: \$20 per case

	No New Judges	2 New Judges
Cost	\$300/day	\$500/day
Service rate	12/day	20/day
Expected no. cases in queue per day	5	1
Waiting costs per day	\$100	\$ 20
Courtroom costs per day	\$300	\$500
Total costs per day	\$400	\$520

While we have no data to support this, we suggest that there are two very common, serious defects in Delphi applications: (1) cutting the process short before a true consensus is reached, and (2) lack of amenability of the participants to any change in their views. Both of these are avoidable, by using the technique only where the necessary time and other resources are available to carry the process to fruition, and by making sure that persons chosen as participants understand what is expected and are willing to comply.

There are two problems in using Delphi that are inherent in the way the human mind works. One is the relative inability to visualize or predict extreme cases -- i.e. how very good or how very bad things can actually be. * If the extremes of the distribution of possible consequences of a policy are omitted, the estimation or prediction process is inherently less precise than it might appear to be. One possible remedy for this may be to increase the emphasis on having the participants gage their own level of certainty in their opinions. The other is that there is less precision ** For example, we

Lichtenstein, S., <u>et al.</u>, "Calibration of Probabilities: The State of The Art," in Jungerman, J. and G. DeZeeaw, eds., <u>Proceedings of</u> <u>the Fifth Conference on Subjective Probability</u>, Utility, and Decision <u>Making</u> (forthcoming).

Dawes, R. and B. Corrigan, "Linear Models in Decision Making," 81 Psychological Bulletin, p.95-106 (1974).

**

would get less precision by asking experts to predict changes in caseload or costs. In the terminology of regression analysis, it is better to ask the expert to focus on the independent variables than the dependent variable, although the latter is probably what the policymaker normally asks the expert to address. This means the process can be improved when caseload or costs in the justice system are modeled, and we ask for predictions of how the bill or rulemaking in question will affect the various elements of the model, and then run those predictions through to see what change in caseload or costs is implied. Even in the absence of a detailed and sophisticated model, the experts can be used to good advantage by asking them to <u>identify</u> the predictors or independent variables, and then combine their estimates of them in a purely linear * fashion.

10. <u>Bayesian Analysis</u>

Bayesian analysis is founded on a formula for revising probability estimates by combining initial estimates with inferences about those probabilities which are based on data. The principal virtue of this method is that it allows the analyst to merge data from different sources; moreover, the initial estimates of the probabilities can be entirely <u>subjective</u>. It can be viewed as a mathematically valid means of updating

*

Dawes, supra, n.2.

or revising the analyst's or policymaker's original beliefs about the truth of a hypothesis, in light of subsequent findings. When the initial or prior estimates and the subsequent likelihood data are both provided, it is possible for anyone else to substitute their own "priors," combine them with the data and see what "posteriors" their own beliefs imply.

One practical application of Bayes' method in the context of justice impact assessment would be as a way of modifying the inferences drawn from data obtained by <u>analogy</u> to take account of perceived differences between the analyzing and the present case. The method of analysis was used in Mr. Nejelski's testimony on S. 364. In that case, data on appeals to the district courts from denials of Social Security benefits were applied to the volume of Veterans Administration's claim denials to estimate the number of appeals likely to be taken to district courts under S. 364, if it became law. To use Bayesian analysis, the range of possible caseloads, from zero to infinity, could be broken up into intervals. Expert opinion, if available, could then be used to estimate the probability of the caseload falling into each of the various intervals. These estimates would then be combined with the Social Security data.

One distinct advantage in a method that incorporates subjective "priors" is that it may be a means of incorporating into the predictive process two phenomena that are conceptually difficult: the "bulge phenomenon" (how much and how persistent) and the possible impact of Supreme Court rulings on the legislation or rulemaking in question.

11. Sensitivity Analysis

Sensitivity analysis means varying the parameters -their values -- in a model to see whether that has any significant effect on the dependent variable. Parameters which, when increased or decreased in value, have little effect on the output are unimportant and can be disregarded or deleted from the model. Suppose that the effects of a legislative proposal are modeled by relating changes in case filings, number of magistrates and number of judges to changes in the number of case dispositions per year. Suppose that, using the model, raising or lowering the number of magistrates (with the number of judges held fixed) shows less than a 1% change in caseload; this would tell us that the legislation is not likely to create a requirement for more magistrates.

This approach might be used either to reduce concern over possible impact on certain parts of the justice system in a given case, or to simplify a model by eliminating unimportant parameters. In some cases this type of analysis may not be feasible or economical, particularly with very involved stochastic models. With simpler models, it may be relatively easy to do without extensive computerization.

12. Monte Carlo Simulation

Monte Carlo simulation is not new in the criminal justice field, though little appears to have been done with it on the civil side. A model is first constructed of the flow of cases through the judicial system,

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e.g. a criminal case beginning at the arrest stage and proceeding along various possible branches to various kinds of final dispositions; the model is <u>stochastic</u> if the various branchings are probabilistic. Once heuristic probabilities are assigned to the various branches, an offender population of stated characteristics can be run repeatedly through the model. Thereby, we can observe the relative frequencies of, say, convictions, acquittals, appeals, etc. which can be expected if the model is correct. This repeated running of populations through the stochastic model, and building up of frequency distributions, is what is known as Monte Carlo simulation, or experimentation with the use of computers.

Often this kind of simulation is an enormous undertaking. But we would propose to investigate the possibility that for certain kinds of legislation of interest in the federal justice field, simple models could be formulated and programmed, and simulation trials run that would predict policy impacts on caseloads and costs, without a great deal of time and expense. Needless to say, this may not always be the method of choice, even when feasible.

13. Dialectical/Forensic

Conclusions or recommendations stemming from even the most objective methods of analysis are dependent on the validity of certain assumptions. Another way of putting this is that the analyst's <u>bias</u> is an unavoidable element in any analysis. One way of minimizing any

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harmful consequences of such bias is to have the analyst report the assumptions along with the conclusions. Another approach, which could actually capitalize on bias, would be to have individuals of known and opposing bias do independent studies of the same question. Conceptually, this may be a way to find the boundaries on the range of possible consequences of some policy change which is contemplated. Bias may be institutional, rather than individual, of course. For some piece of legislation that is expected to have some impact on the judicial system, there may be some group very much in favor of it; if they were asked to predict impacts, they may naturally tend to operate on assumptions that would show minimal likelihood of significant adverse consequences. Groups identified with the judiciary itself might have very different assumptions, and rather different predictions.

Somewhat related to the dialectical approach would be one of assigning to different analysts the task of describing and quantifying the best or worst possible case -- i.e. to become an advocate for the likelihood of one extreme or the other. As in the dialectical case, the immediate objective would be to establish the limits on the range of possibilities. It would have the advantage, however, of a greater potential supply of suitable analysts. In either case, it would be desirable to develop some method of combining the results to get an estimate of the most likely outcome, although the limits themselves may be the most useful information.

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APPENDIX B

DOCUMENTATION OF THE FEEDBACK EXPERIMENT

ON THE RESULTS OF

THE ABOLITION OF DIVERSITY JURISDICTION

As the last phase in the methodological development of the Justice Resource project, the feedback experiment concept was implemented in the study of the abolition of diversity jurisdiction. The technique of the feedback experiment was used to introduce the element of human behavioral adaptation to the computer simulation of the justice system. By eliciting the reactions of an expert panel to simulation results, human adaptation to change in the federal justice system can be accounted for.

The technique of a feedback experiment is useful in studying change in the justice system in the following ways: (1) as previously stated, a feedback experiment can add the dimension of human behavior to an otherwise mechanical simulation model; (2) feedback experiments can be used to test hypotheses about how the justice system would work under specific conditions, using the simulation model; and (3) feedback experiments can be used to generate behavioral rules or operating rules about the justice system, enhancing our knowledge of how that system functions.

The process of the feedback experiment is that of producing computer simulation results, asking feedback panel members to review it and suggest behavioral changes that specific individuals or groups in the justice system might make. Then the simulation is run with new inputs corresponding to those changes, asking panel members to review the results again, and repeating the process of resimulation and review until panelists are satisfied that no further changes should be made, or until the process breaks down. In this particular

study, the abolition of diversity jurisdiction, the initial simulation results compared the present condition of the justice system with its condition if all diversity jurisdiction cases were removed. Panelists then suggested behavioral modifications that might be made in response to the preabolition/postabolition difference. This served as the first round of the experiment, with subsequent rounds resulting from behavioral changes being incorporated into the simulation.

The Orientation Meeting

On February 25, 1980, an orientation meeting for the feedback panelists was conducted. In addition to reviewing the project and the subject of study (i.e., abolition of diversity jurisdiction), the panelists were given a brief description of the Justice Resource Model. The three most important topics in terms of the function of the panel were:

- the role of experts on the feedback panel,
- safeguards to minimize personal bias, and
- calibration.

• The Role of Experts

The members of a feedback panel of experts must understand how judges, government litigators, and private attorneys use their time and the kinds of decisions they make in handling cases. Consequently, the panel was made up of people who were likely to be able to predict how such individuals would react to a range of potential changes in the system. The three members of this panel were asked to assess how decision-making processes and time utilization would be affected by changes such as an increased volume of cases, or an increase in the amount of time case-processing events require. Ordinarily, a panel member would be expected to know the behavior of one of these types of human resources

particularly well, and would bring that perspective to bear in a simulation review. For example, the panel member representing district court judges was responsible for understanding and analyzing the behavior of judges. The two other panelists who took part in this experiment represented the U.S. Attorney's Office (both civil and criminal attorneys), and the private bar.

Safeguards

Three device have been built into the procedure to help minimize personal bias, and to prevent any one panelist from engineering all the impact results.

(1) <u>Jurisdictional limitation</u>: A panel member is permitted to make changes only on those aspects of the data or the model that relate to his own expertise. He may, of course, take issue with the judgments of others. These disagreements form part of the record, and they may have contributed to changed decisions by the other panelists in later runs.

(2) <u>A requirement for stating reasons</u>: A panel member may feel that something in the model should be changed because the simulation shows some condition that would trigger a behavioral modification. The panelist is required to state what that modification is, and the reasons for making it. Personal perspective is thereby exposed and made part of the record of the impact study. This also makes it easier for a person to do the work of a panelist. One can make a statement and support it with his own rationale.

(3) <u>The striking of compromises</u>: In the review proces, one panel member may want to make changes that conflict with the views of another panel member. For instance, in response to a rising backlog, the judge expert may want to see more dismissals on the merits; at the same time the attorney representative may feel that more cases should be brought to trial. These

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changes come to bear on the same element of data, namely, the probability that a case will last all the way to trial. However, these changes would have opposite effects. Part of the panel function, therefore, is to reach compromises when this kind of conflict arose. This, in effect, simulates the real-life process by which attorneys and judges have to resolve differences as to how the justice system should operate.

• Calibration

Calibration was explained to the panel members as the means by which the project team obtained specific coefficients used to translate verbal responses into numerical computer inputs. Each panelist was given two lists of variables, one of output variables and one of input variables. (See pages B-31-34.) For each variable, a hypothetical number was listed as the figure currently in the system (either as input or output). Based on that number, panelists were asked to make judgments as to what amount of increase or decrease would represent "some" or an "immaterial" difference, a "moderate" difference, or a "significant" difference in that variable.

Once each panelist had responded with three levels for each variable, their responses were translated into coefficients. Then, during the feedback rounds, when a panelist suggested that he would make some level of change in a particular variable, his coefficient representing that level of change was multiplied by the current value for that variable. In this manner, the panelist's own ideas of what constituted levels of change were translated into computer inputs without the panelist having to think in numerical or percentage terms, although that was also permitted.

Pre/Post-change Results

Once the orientation meeting had been held and calibration values had been obtained for each member, the experiment was begun by producing a simulation run. The output consisted of statistics representing the current level of operation in the federal justice system. These statistics were labeled "Base Line" on the Record of Feedback Experiment Results (in Figure B-1 on page B-6. The "Post Change" column was produced by terminating subsequent filings of diversity jurisdiction cases. This second set of statistics were produced by allowing the simulation to run after the diversity jurisdiction cases were eliminated.

These results cannot be considered complete since the computer did not make any behavioral adaptations to this change. It is at this point that the feedback rounds began.

Round-by-round: Procedure

Each member of the expert panel was assigned a contact person from the project team at the orientation meeting. Appointments were scheduled between the panel members and their respective contact persons for each round.

The contact persons arrived at their respective expert's office and presented them with the "Record of Feedback Experiment Results." They first reviewed what information each output type provided. The panelists were then requested to examine the results produced in the pre and post-change simulations and to consider how the actor types they represented would react to the system changes.

Their opinions regarding the potential behavioral adaptations were recorded on "Adaptation Records" which were provided at the beginning of each round. Later in the experiment, some of the experts simply discussed their

Output Type	Base	Post		FEEDBACK RESUL	JTS
	Line	Change	Round 1	Round 2	Round 3
Utilization (% Time on Case- Related					
Judge Activities)	63.2%	56.4%	56%	54.9%	63.5
Criminal Attorneys	71 %	72.4%	74%	59.4%	60.1
Civil Attorneys	65.5%	64.5%	61%	75.7%	71.1
Elapsed Time (Days)		- <u>-</u>			
Federal Question	239	238	205	146.4	170.3
Diversity Jurisdiction	241.5				
Criminal	94.8	92.4	72.5	63.1	. 64.6
Civil/U.S.	190.9	187.6	157.7	165.9	228.5
No. of Case Completions					
Federal Question	753	760	773	789	776
Diversity Jurisdiction	405				
Criminal	328	365	362	308	301
Civil/U.S.	595	573	590	642	644
Average Daily Backlog (Cases)					
Courtroom Activities	•••				
Judges	4.15	2.34	1.45	1.21	2.04
Criminal Attorneys	.77	.55	.40	.23	.25
Civil Attorneys	.51	.36	.21	.31	.42
Noncourtroom Activities					
Judges	1.8	.65	.62	.57	.96
Criminal Attorneys	2.9	3.02	2.59	.99	1.02
Civil Attorneys	2.33	1.91	1.22	3.87	4.75
Private Cases					
Judges	2.68	1.03	.62	. 59	1.47

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opinions while their contact persons took notes; after each meting the contact persons transcribed their notes onto the Adaptation Records for that round.

At the end of each set of meetings, all the contact persons met to discuss the behavioral adaptations suggested by the experts. "Translation" sheets were developed in the course of these later meetings. These sheets contained the list of behavioral adaptations proposed and the corresponding parametric changes which were made to operationalize the changes. (See pages B-46,52,58). Beginning with the second round, experts were provided with the translation sheets containing the list of behavioral adaptations from the previous round. They were permitted to study these sheets and to refer to them during the feedback round. This enabled the panel members to understand how the other actors were behaving and what measures each was undertaking in response to the changes in system outputs. This information should have aided the experts in their interpretation of new simulation results since changes in the outputs were caused by the adaptations introduced by system actors.

Upon reaching Round 3, two of the three experts found themselves confused by certain of the output results. In order to proceed with the experiment, a panel conference was scheduled to discuss the results. This is discussed in greater detail later in this Appendix.

The conference provided the first opportunity during the feedback experiment for panel members to discuss their intentions with one another, and to come up with compromises. The output results were examined and discussed jointly. The decision to end the experiment was arrived at during this conference and agreed to by all panel members.

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Round-by-round: Results and Summary of Behavioral Adaptations

Outputs produced in each simulation run were of four main types. The first, utilization, provided information on the percentage of time system actors (in this case federal district judges, and assistant U.S. attorneys in criminal and civil divisions) spent on case-related activities.

The second output type was the elapsed time in working days that different types of cases took from the time they entered the system until their termination. Statistics were provided for Federal Question cases not involving the U.S. as a party, Diversity Jurisdiction cases, Federal Criminal, and Civil/U.S. cases.

The third type of output was the number of case completions, or case terminations. These outputs were given for each of the four case types mentioned above. The last type of output was called the average daily backlog. These statistics were broken down into subcategories of courtroom and noncourtroom activities for each actor type. The interpretation for this type of output was that the figures represented the number of cases awaiting service in the courtroom or in the actor's office at the start of each day. The courtrom activities included injunctions, trials, and other hearings (e.g., arraignments, sentencing hearings, motions hearings, etc.). Noncourtroom activities consisted of writing memoranda, holding conferences, conducting legal research, etc.

• <u>Round 1</u> began with panelists examining the pre-change (baseline) and post-change outputs from the first computer simulations. The percent increases and decreases were calculated for each actor or case type within the four major categories (see Figure B-2, pages B-9). The behavioral adaptation records for all panel members on each round are available on pages B-42-46, 49-52, 55-57. To summarize, there were three main behavioral changes offered by the panelists

FIGURE B-2. SIMULATION RESULTS AT THE START OF ROUND 1

Output Type	Base Line	Post Change	Post Change vs. Baseline		
Utilization (% Time on Case- Related					
Judge Activities)	63.2%	56.4%	11% decrease		
Criminal Attorneys	71 %	72.4%	2% increase		
Civil Attorneys	65.5%	64.5%	1.5% decrease		
Elapsed Time (Days) .			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Federal Question	239	238	0.5% decrease		
Diversity Jurisdiction	241.5		с ⁴		
Criminal	94.8	92.4	2.5% decrease		
Civil/U.S.	190.9	187.6	1.7% decrease		
No. of Case Completions					
Federal Question	753	760	1.0% decrease		
Diversity Jurisdiction	405	ana tera tera			
Criminal	328	365	11.4% increase		
Civil/U.S.	595	573	3.7% decrease		
Average Daily Backlog (Cases)					
Courtroom Activities					
Judges	• 4.15	2.34	44% decrease		
Criminal Attorneys	.77	.55	28% decrease		
Civil Attorneys	.51	.36	25% decrease		
Noncourtroom Activities					
Judges	1.8	.65	64% decrease		
Criminal Attorneys	2.9	3.02	4% increase		
Civil Attorneys	2.33	1.91	18% decrease		
Private Cases					
Judges	2.68	1.03	62% decrease		

in Round 1. The judge expert noted a significant redution in courtroom backlog once diversity jurisdiction cases had been eliminated. He, therefore, became a more aggressive manager by accelerating the scheduling of courtrom appearances and the completion of noncourtroom activities for all case types but most especially for criminal cases. He accelerated the cases on the premise that he wanted to insure compliance with the Speedy Trial Act for criminal cases and to give priority to the oldest civil cases (older than 6 months) in the system.

The judge predicted that the pressure he was applying to accelerate the civil cases would result in an increased tendency on the part of civil attorneys to settle cases out of court.

The panel member representing the U.S. attorneys took special notice of the reduction in the judges' courtroom queue. He took this reduction to indicate that there would be less rescheduling of cases ready for courtroom service. This alleviated the problem for attorneys of having to prepare cases a second time for a courtroom appearance. He expected the principal effect to lie with U.S. attorneys in their noncourtroom time prior to trial for civil/U.S. cases.

The representative for the private bar made several observations though none was implemented as a behavioral change to the computer model. The first observation related to his assumption that following the abolition of diversity jurisdiction, cases which would have been filed in federal courts would now be filed in the State courts. Thus, the private bar's workload may not be affected.

The second observation the private bar expert made was that the greater availability of judges might logically lead to more case filings. He predicted that any increase in private filings would be quite small since he believed that attorneys now file as many private cases as come to their attention.

The third observation made by the private bar panelist was that many attorneys handle both civil and criminal matters in federal courts. The increase in criminal case completions (from the pre-change to post-change condition) would cause attorneys to neglect their civil casework in favor of criminal cases. Given the existence of a specialized criminal bar, however, this change would be quite small.

• <u>Round 2</u> began by having the experts study the translation sheet for Round 1 behavioral changes (page B-47) and the simulation outputs for Round 1 (pages B-12). Then they discussed any changes they noticed with their contact persons.

The next step involved having each expert react to the outputs and suggest any additional behavioral changes. In summary, the changes introduced in Round 2 included the judge's attempt to achieve a significant reduction of time in the time to dispose of private civil cases. He effected this change by giving these cases priority over public cases and by putting more pressure on the private bar to accelerate their scheduling of courtroom appearances and the 'completion of noncourtroom activities. The judge expert was also attempting, through these means, to increase the judge utilization rate to its previous level.

The U.S. Attorney panelist presumed there would be a morale problem among the criminal personnel due to the overwork caused by the substantial reduction in elapsed time for handling criminal cases. He, therefore, made the policy decision to assign some criminal cases to civil personnel, at least on a temporary basis.

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The private bar predicted two opposing tendencies: (1) reduction in "junk" case filings due to the increased probability of having to go to court and the pressure to speed up case handling of the existing cases; and (2)

Base	Post		Round 1 vs.
Line	Change	Round 1	Post Change
63.2%	56.4%	56%	25% decrease (sig)
71 %	72.4%	74%	2.2% increase
65.5%	64.5%	61%	5.4% decrease (sig)
	<u></u>		
239	238	205	14% decrease (sig)
241.5			
94.8	92.4	72.5	22% decrease (sig)
190.9	187.6	157.7	16% decrease (sig)
		<u></u>	
753	760	773	2% increase
405			
328	365	362	.7% increase
595	573	590	3% increase
			
• 4.15	2.34	1.45	38% decrease (sig)
.77	.55	.40	27% decrease (sig)
.51	.36	.21	42% decrease (sig)
1.8	.65	.62	39% decrease (sig)
2.9	3.02	2.59	14% decrease
2.33	1.91	1.22	36% decrease (sig)
2.68	1.03	.62	40% decrease (sig)
	Line 63.2% 71 % 65.5% 239 241.5 94.8 190.9 753 405 328 595 753 405 328 595 4.15 .77 .51 1.8 2.9 2.33	LineChange63.2%56.4%71 %72.4%65.5%64.5%239238241.594.892.4190.9187.67537604053283655955734.152.34.77.55.51.361.8.652.93.022.331.91	LineChangeRound 163.2%56.4%56%71 %72.4%74%65.5%64.5%61%239238205241.594.892.472.5190.9187.6157.77537607734053283653625955735904.152.341.45.77.55.40.51.36.211.8.65.622.93.022.592.331.911.22

B-3. UHAULATION RECORTS INT THE DIART OF ROUND 2

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 increase in filings due to the reduction in delay time. As the judge becomes a better manager there will be fewer reschedulings; thus, attorneys will spend less time on each case and will leave time to file new cases. These two opposing tendencies will cancel each other out so filings will not change.

2

• <u>Round 3</u> started with the panel members examining the translation of Round 2 behavioral adaptations (pages B-53) and the simulation outputs for Round 2 (pages B-14). Panel members discussed the changes with their contact person. Two panelists became confused about one of the output statistics and raised questions about its interpretation. For the U.S. Attorney representative, his questions regarding the statistic were serious enough that he felt he could not participate in Round 3. The private bar expert also raised questions about the statistic's interpretation but felt sufficient confidence in the outputs as a whole that he was able to complete Round 3. When his contact person asked whether a meeting of the other panel members might be helpful to him in considering how to interpret the confusing statistic, he replied that it would be. The U.S. Attorney expert also wanted to meet with the other panel members to discuss the results.

Of the three panel members, the judge expert was least concerned about the significance of the statistic. When asked if he felt a meeting of the panelists was necessary, he replied that it was not but that he would be willing to meet if the other members found it important to do so.

The behavioral adaptations suggested for Round 3 included the following. Given the drop in the judge utilization rate, the judge expert predicted that judges would become more deliberative: (1) spending more time on noncourtroom work for all case types, and (2) increasing the courtroom activity in private cases.

The expert on the private bar suggested that, given the pressure implied

FIGURE B-4. SIMULATION RESULTS AT THE START OF ROUND 3

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Output Type	Base	Post			Round 2 vs.
	Line	Change	Round 1	Round 2	Round 1
Utilization (% Time on Case-					
Related Judge - Activities)	63.2%	56.4%	56%	54.9%	2 % decrease
Criminal Attorneys	71 %	72.4%	74%	59.4%	25 % decrease
Civil Attorneys	65.5%	64.5%	61%	75.7%	19.4% increase
Elapsed Time (Days)					
Federal Question	239	238	205	146.4	40 % decrease
Diversity Jurisdiction	241.5			۰ . محمد محمد محمد	
Criminal	94.8	92.4	72.5	63.1	14.9% decrease
Civil/U.S.	190.9	187.6	157.7	165.9	5 % increase
No. of Case Completions					
Federal Question	753	760	773	789	2.1% increase
Diversity Jurisdiction	405				
Criminal	328	365	362	308	17.5% decrease
Civil/U.S.	595	573	590	642	8.1% increase
Average Daily Backlog (Cases)				**************************************	
Courtroom Activities					
Judges	4.15	2.34	1.45	1.21	19.8% decrease
Criminal Attorneys	.77	.55	.40	.23	73.9% decrease
Civil Attorneys	.51	.36	.21	.31	32.3% increase
Noncourtroom Activities					
Judges	1.8	.65	.62	. 57	8.8% decrease
Criminal Attorneys	2.9	3.02	2.59	.99	161.6% decrease
Civil Attorneys	2.33	1.91	1.22	3.87	68.5% increase
Private Cases					
Judges	2.68	1.03	.62	. 59	5 % decrease

by the fast pace at which criminal cases were being processed, defense counsel would be more willing to negotiate more pleas. He stated that the dramatic increase in civil case completions show an unrealistic degree of cooperation by the private bar to the pressure being applied by the judge to speed up cases. The behavioral adaptations which he foresaw as being related to this situation were that private counsel would increase the time spent on federal question and civil/U.S. cases and that they would request more delays for civil/U.S. cases. The final prediction the private bar expert made was that the pressure to accelerate scheduling for civil cases would cause a greater willingness on the part of private counsel to settle civil cases out of court.

<u>Panel Conference</u> was the next round in the feedback experiment. All the panel members and the contact persons met to discuss the problems encountered during Round 3 and to examine the Round 3 outputs (page B-16).

The research team had prepared a document that summarized the behavioral changes for Rounds 1-3 (pages B-60) and a summary of feedback results for observations deriving from the first three rounds (pages B-61).

During the course of the meeting, panelists made a number of suggestions for ways to improve the feedback methodology including clearing up misunderstandings about the limits on their jurisdiction, requests for more detailed output information, etc. These suggestions will be discussed in the next section.

The panel agreed that the conference was a good end to the feedback experiment. No further rounds were undertaken.

Issues and Considerations

Several issues arose out of the experience of the feedback experiment conducted on the abolition of diversity jurisdiction. The three panel

Output Type	Base Line	Post	Round 1	Round 2	Round 3	Round 3 vs. Round 2
*** * 1 * / 1/ 17 * 0	DTH6	Change	KOUIIO I	Kound 2	Kound 5	Koulia z
Utilization (% Time on Case- Related						
Judge Activities)	63.2%	56.4%	56%	54.9%	63.5	13.5% increase
Criminal Attorneys	71 %	72.4%	74%	59.4%	60.1	1.2% increase
Civil Attorneys	65.5%	64.5%	61%	75.7%	71.1	6.5% decrease
Elapsed Time (Days)						
Federal Question	239	238	205	146.4	170.3	14.0% increase
Diversity Jurisdiction	241.5					
Criminal	94.8	92.4	72.5	63.1 .	64.6	2.0% increase
Civil/U.S.	190.9	187.6	157.7	165.9	228.5	27.4% increase
No. of Case Completions						
Federal Question	753	.760	773	789	776	1.7% decrease
Diversity Jurisdiction	405					هم بن ها ها
Criminal	328	365	362	308	301	2.3% decrease
Civil/U.S.	595	573	590	642	644	0.3% increase
Average Daily Backlog (Cases)		······				
Courtroom Activities						
Judges	4.15	2.34	1.45	1.21	2.04	40.7% increase
Criminal Attorneys	.77	. 55	.40	.23	.25	8.0% increase
Civil Attorneys	.51	.36	.21	.31	.42	26.2% increase
Noncourtroom Activities				•		
Judges	1.8	.65	.62	.57	.96	40.6% increase
Criminal Attorneys	2.9	3.02	2.59	.99	1.02	2.7% increase
Civil Attorneys	2.33	1.91	1.22	3.87	4.75	18.5% increase
Private Cases				•		
Judges	2.68	1.03	.62	.59	1.47	59.9% increase

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participants made a number of suggestions as to how the feedback methodology might be improved. The issues discussed at the panel conference (and during individual feedback rounds) are listed below.

- Panel members felt that in order to be able to suggest behavioral adaptations they needed more detailed output information. The types of outputs that the panelists suggested would be helpful include:
 - a) the disaggregation of non-courtroom and courtroom activities by case type and by particular activity
 <u>OR</u> the frequency of particular activities as they occur in different types of cases;
 - b) case tracking information on criminal cases so that panel members can easily determine when cases are nearing deadlines imposed by the Speedy Trial Act (STA); cases in the model should be granted STA exemptions in the same proportions as they occur in the actual system;
 - c) information on the length of time individual cases havebeen in the system so that cases can be prioritized by age;
 - d) the disaggregation of cases listed under "completions" by type of termination (e.g., pleas, dismissals, etc.).
 - e) the panelist representing the U.S. Attorneys suggested that the model needed to be able to simulate the "matter" workload. A good deal of time is expended by assistant U.S. attorneys working on matters that never become cases; they are disposed of before entering the courts. This work time should be counted separately from the case workload and a statistic

produced to reflect this effort.

- 2. Panel members felt that the role of the private bar was not well enough defined for that panelist to be able to make decisions. Suggestions for improving this role included:
 - a) split the private bar role into plaintiff
 and defense roles;
 - b) provide a profile of cases in the State court systems, since a large portion of the caseload of the private bar consists of State level cases.
- 3. There appeared to be some confusion among certain panel members as to what their areas of jurisdiction included. Some problems also arose in the translation of behavioral adaptations into parameter changes for the model. This was due to the research team's failure to obtain agreement on the part of multiple panel members when changes were suggested which affected more than one actor's jurisdiction.

It would be helpful, in future feedback panels, to develop lists defining the variables which each panelist has jurisdiction over and those which require agreement by two or more members.

While these suggestions are very helpful in continuing the methodological development, each should be considered in terms of how such changes would be implemented.

The request by panel members for more detail in the simulation outputs (1.a.) is very understandable in that the greater the level of detail available, the more specific one can be in suggesting behavioral changes. As they are currently generated, simulation outputs provide statistics representing the average queue length for courtroom activities over a simulated period of time. The statistics are broken out by actor type for public cases (judge and U.S. attorneys) and private cases (judge alone). Average queue lengths are also produced by actor type for non-courtroom activities. The breakdown of courtroom and non-courtroom activities into particular events is feasible for assistant U.S. attorneys by general case type, i.e., civil or criminal. Data are available from the U.S. Department of Justice through their U.S. Attorney Case-Weighting Study. Comparable data for federal judges is not currently available. Published studies reporting the proportions of courtroom and non-courtroom activities are available from the Federal Judicial Center.* Breakdowns of particular activities by case type have not been published.

Panel members seemed not to find the average queue lengths for courtroom and non-courtroom activities particularly useful or interpretable without the additional level of detail requested. Perhaps simply a breakdown in the utilization rate into courtroom and non-courtroom activities would prove more helpful if the data cannot be disaggregated further.

The request for criminal case tracking information (see 1.b.) on pg. B-17) which would enable panel members to know when these cases are in danger of exceeding the Speedy Trial requirement is not available directly. In the criminal sequential model, once criminal defendants are arrested and not released prior to trial, a "clock" is set which keeps account of elapsed time. These cases are given priority handling to ensure their rapid movement through the system.

* Allocation of Resources to U.S. Attorneys' Offices: A Case-Weighting Study, INSLAW, 1979.

If they exceed the Speedy Trial time limit, they exit the system and are calculated as "Speedy Trial failures."

It would be fairly simple to implement a computerized means of testing for excludable delays to the Speedy Trial requirement. Cases which had failed to meet the time limit could be checked to see if an excludable delay had been granted; if not, they would exit the system as failures; if so, they could be returned to the resource queues to receive trial. Such a mechanism is not currently in place. However, the actual proportion of "failing" cases can be compared with the simulated number and a decision can be made as to the accuracy or inaccuracy of the current handling of these cases.

The requests made in l.c. and l.d. above, present conceptual problems for the Resource model. This is due to the random assignment of events for civil cases. It is not possible to determine the length of time cases take before reaching a particular processing stage, e.g., trial. This is because the trial may be scheduled any time during the life of a given case. It is most probable that the trial will occur near the end of a case but the order of events is quite flexible due to the random selection procedure. Thus, providing the age of cases would not necessarily reflect the reality of the situation. Similarly, the type of termination for individual cases is not readily determinable. This is related to the general nature of case profile assignments which only specify activities to be underta¹ on. Thus, cases which end after completing certain events may represent an early dismissal, a settlement arrangement, or some other type of termination. It is not clear exactly what type of termination has occurred.

The criminal sequential model, on the other hand, would have much less difficulty meeting these needs. Events are chosen probabilistically in this model so when a case is terminated by a dismissal it is recorded as a dismissal

at a particular processing stage.

The age of cases, in terms of elapsed time, is an output statistic for criminal cases just as it is for all the civil case types. The only priority given to criminal cases regarding their age is the monitoring of cases proceeding to trial under the Speedy Trial requirement. In order to make the age of cases available throughout their lives, extensive reprogramming work would be required. It does seem plausible that such information could be obtained from this sequential model.

A sequential model of the type used to process criminal cases has not proved itself to be a useful tool for handling civil cases. It is not likely that switching to a sequential modeling of civil caseflow would enhance the capability of a simulation model to make accurate impact predictions. Thus, even though more data may be obtainable regarding termination status and case age through this modeling technique, it is, overall, a less efficient way of modeling civil cases.

The request made in 1.e. relating to calculation of the time expended by assistant U.S. attorneys on matters is modeled by having a workload of cases that consist only of very preliminary service events. An example of such a case might have an event schedule that consists of one or two non-courtroom activities by an assistant U.S. attorney, no judge service, one external delay event, and then termination. The non-courtroom events may represent phone calls, conferences, or other investigative tasks performed on a matter before an indictment or an information is prepared. The external delay event would the time spent by investigative agencies conducting probably represent background work on the matter. In the criminal sequential model, matters which are returned for additional investigative work or are held while other pending charges/court cases are investigated or disposed of are also modeled.

Obtaining statistics reflecting the work done on matters alone, would involve a considerable increase in computer processing time per simulation run. The computer would have to check the entire case profile each time it initiated an activity to determine whether or not it was matter-related or case-related. Any matter-related work would have to be totaled separately from case-related non-courtroom activities. This could be accomplished by modeling matter queues for the assistant U.S. attorneys and taking transaction information from them. New coding would have to be programmed into the model in order to be able to provide statistical information on resource utilization on the matter workload. While those efforts may accomplish the goal of providing this additional information it would be so at considerable expense.

The suggestions made in 2.a. that the panel role representing the private bar be divided into plaintiff and defense roles creates no particular problems. This is a methodological problem which should be handled in a way that facilitates the panel member's task of responding to the simulation results. If the separation of the private bar role into two parts makes participation on the feedback panel more straightforward, then future panels should be so constructed.

In order to fulfill the data request of 2.b. the National Center for State Courts should be contacted for information related to caseloads in the State courts. Private bar respondents should be given this information and be permitted to study it before responding to simulation results. Again, this represents a situation in which a methodological procedure can be easily altered to accommodate the participation of a panel member; it is our opinion that this feature should be incorporated into future feedback procedures.

The third issue raised (see #3., page B-18) must be handled by the research team conducting the feedback experiment. When behavioral adaptations

are suggested that have a bearing upon several actors, all panel members implicated in the change must be consulted and a compromise arrived at. The preparation of lists of variables over which each actor has jurisdiction and which he/she must discuss with other panelists should be of assistance during the actual feedback procedure.

The conclusion reached upon completing this feedback experiment was that it had shown itself to be a useful tool for incorporating subjective judgment into the computerized model. Several rounds were successfully completed eliciting opinions on behavioral adaptations for system actors and translating these into changes in model parameters. The suggestions that came from the expert panel were quite helpful, though some may be difficult to implement. Subsequent efforts aimed at utilizing the feedback procedure will clearly benefit from their incorporation.

The following pages are the actual record of the feedback experiment. The orientation document, adaptation records, and translation sheets are included.

JUSTICE IMPACT ANALYSIS: AN ORIENTATION DOCUMENT

Introduction

We welcome you to a justice impact analysis. During this week, we will be concentrating on a quantitative impact study in which a computer simulation is used to analyze the impacts on the federal justice system resulting from the introduction of new legislation. You will be asked to examine simulation results and to make judgments as to the behavioral responses of system actors. Actors will include federal judges, assistant U.S. attorneys, and litigants.

This document will provide you with descriptions of a justice impact analysis, and the computer model used in the simulation. The document will tell you how your judgmental advice will be used in the analysis. In the orientation session, we will show you the simulation and how to make your adjustments to the factors in the computer model.

The Justice Impact Analysis

The question of how to make an estimate of the "impact" of new legislation on the justice system has been the subject of much discussion during recent years. Analyses have been considered by all three branches of government, and published examples of such analyses exist for various legislative, rulemaking, and procedural changes.

MATHTECH has been funded by the Office for Improvements in the Administration of Justice to develop methodologies for analyzing judicial impacts. Your participation is part of the last major developmental phase in our Justice Impact Analysis.

In the course of the project we have defined three major kinds of impact analyses:

- (a) quick estimates of the major impacts of legislation,
 such as is often done now in a short time frame by
 in-house staff;
- (b) systematic qualitative analyses of the provisions
 of legislation, on a section by section basis, to
 identify all the expected major effects; and
- (c) quantitative analyses of expected effects, to show how great changes are likely to be, and to compute the interaction effects of those changes as they ripple through the justice system.

Our research project has concentrated on the second and third of these justice impact analyses -- the qualitative and quantitative. We have completed a qualitative analysis of the 1974 Juvenile Justice Amendments to see how well we might have forecast the results that occurred as a result of the passage

of that legislation. We have also done qualitative impact studies of the effects to be expected from the Small Business Judicial Access bill, and of possible legislative changes in diversity jurisdiction.

We have completed quantitative studies of the effects of the 1974 Juvenile Justice Act, and of the curtailment or abolition of diversity jurisdiction. Reports of these analyses have been provided to our sponsor.

Each of the three kinds of analyses has its advantages and disadvantages. The quick analyses have the advantage of fast results, but they run the risk of missing major effects, as well as any secondary effects.

Qualitative analyses have the advantage of providing a systematic comparison of the effects that can be expected from each of the proposed changes, and they can be produced in a relatively short time. The disadvantage of such analyses is that they typically cannot say by how much the system will change, nor can the complex interactions within the justice system be fully considered.

A quantitative analysis has the merit of using a computer simulation which details each of the events in the life cycle of a case, placed in the context of the full workload of a federal district court. It provides detailed summaries of what happens to the cases and the system, in terms of elapsed time, backlogs, delays, terminations, and the time demands placed on judges and attorneys. More importantly, the simulation can handle a level

of complexity in system interactions which the human mind cannot. There are two difficulties with quantitative analyses: (a) they are more time-consuming and expensive than the other methods, and (b) subjective judgments must be explicitly included. During this week, we will be conducting a feedback experiment. The primary purpose of this experiment is to add the dimension of human behavior to the simulation. The combination of feedback techniques with simulation is not without precedence. It has been used by other governmental agencies, e.g., the Department of Defense in estimating the tactical changes following the use of new weapons systems, and the Department of State in estimating the results of changes in disarmament on international relations. In industry, the methods have been used in the banking field, and in making long-range plans for major corporations.

The Role of Experts

The feedback panel is a systematic way of bringing out explicitly the subjective judgments of experts, and of finding consensus where that is possible. In this experiment, we will be treating you as feedback experts.

The members of this panel of experts must understand how judges, government litigators, and private attorneys use their time and the kinds of decisions they make in handling cases. Consequently, the panel is made up of people who are likely to be able to predict how such individuals would react to a range of potential changes in the system. They will be asked to assess how decision-making processes and time utilization will be affected by changes such as an increased volume of cases, or an increase in the amount of time caseprocessing events require. Ordinarily, a panel member would know the behavior of one of these types of human resources particularly well, and would bring that perspective to bear in a simulation review. For example, a judge on the panel would be responsible for understanding and analyzing the behavior of It is important that one or more of the panelists judges. represent the point of view of litigants: the decision to seek legal counsel, bring a lawsuit, how vigorously to defend, how long to persevere, and so on are important factors. Other points of view would also need to be represented, e.g., the private bar, the U.S. Attorney's Office, and so on.

The Computer Model of the Justice System

On our first day of the experiment, we will show you how the events in the justice system are represented in our computer model. Basically, we have represented the operation of a federal district court that has five judges and eleven assistant U.S. attorneys. Each simulation represents one work year, during which cases enter the system at approximately the same rate as they would in a medium-sized district court. Cases are divided into four classes: criminal, U.S. civil, federal question, and diversity jurisdiction cases. Each of the cases is assigned a profile of events, such as hearings, delays, injunctions, negotiations, etc. The profiles characterize actual cases in the federal justice system. They are selected from distributions of all possible case events for particular case types.

The data we are using have come from a variety of sources -data tapes from the Administrative Office of the U.S. Courts, special studies of caseweights, other detailed studies, and some subjective estimates.

Our computer model has been "equilibrated," i.e., put into equilibrium, to reflect the current state of the federal justice system. Thus, computer results are reasonable with respect to published statistics.

After the model was equilibrated, it was tested to see whether the computer model would produce intuitively reasonable results when the inputs were changed. For example, when we removed a whole category of cases from the system (e.g., abolition

of diversity jurisdiction cases) one expected result was that judges would have more work time available. The model outputs reflected this change in a way that seemed logical (i.e., judge backlogs were reduced, judge utilization proportions decreased, etc.). However, the simulation results suggested additional questions which the computer model was not able to answer. To wit, if the abolition situation were to occur, the judges might be expected to change the way they handle the remaining cases. The simulation alone cannot determine how judges would alter their behavior.

This is the kind of question which we need your professional judgment on. We need to be able to tell the computer how to shift case-handling priorities, so that the results reflect some of the behavioral adaptations that might be expected from actors involved in the system. This can be accomplished by creating a process whereby expert opinion may be obtained for input to the simulation. The bulk of this week's activities will involve eliciting your reactions to the results of the model's operations and successively adjusting some of the model's components until a new equilibrium that includes human judgment is reached.

Each of you will represent one set of system actors: (1) judges (2) attorneys, or (3) litigants. You will each be asked how your actors' behavior would shift if the world changed the way our computer model says it would. These judgmental changes will be translated into computer instructions, and a new set of results will be computed.

This translation will be made by our staff, after we have "calibrated" your word definitions into computer coefficients. Calibration is the process of converting your subjective estimates into quantitative terms. That is, we will ask each expert to state a level of change in various factors that he/she would consider significant and then translate these statements into numerical terms for the computer.

You will be provided with the results of the computer calculations following the first simulation, and you will be asked two questions:

- (1) Do the new results seem reasonable, and if not, why not?
- (2) Given the new state of affairs, would you change your actors' behavior; and if so, how?

This information will be input to the computer for the second run of the simulation. The output of the second simulation will contain not only the results of the legislative changes bualso the results of behavioral adaptations by all system actors to those changes. You will again be asked to examine these results and make judgments regarding their reasonableness. You will also be asked to suggest additional behavioral modifications for the actor type you represent. This process will be repeated until all experts are satisfied that the results reflect all impacts created by the legislative change. At this point, the simulation results give us a picture of legislative impacts with human adaptations to the change.

We have built in three devices to help minimize personal bias, and to prevent any one panelist from engineering the impact results.

(1) Jurisdictional limitation: A panel member is permitted to make changes only in those aspects of the data or the model that relate to his or her own expertise. For instance, the judge panelist may change only the judge data. This should prevent any one panelist from engineering the whole impact result. He may, of course, take issue with the judgments of others. These disagreements will form part of the record, and they may contribute to changed decisions by the other person in later runs. Also, a whole new run can be made reflecting the results if the behavioral preference of the critic replaced that of the responsible player.

(2) <u>A requirement for stating reasons</u>: A panel member may feel that something in the model should be changed because the simulation shows some condition that would trigger some behavioral modification. The panelist must state what that modification is, and the reasons for making it. Personal perspective will thereby be exposed and made part of the record of the impact study. This should, incidentally, make it easier for a person to do the work of a panelist.

(3) <u>The striking of compromises</u>: In the review process, one panel member may want to make changes that conflict with the views of another panel member. For instance, in response to a rising backlog, the judge expert may want to see more dismissals on the merits; at the same time the attorney representative may feel that more cases should be brought to trial. These changes

come to bear on the same element of data, namely, the probability that a case will last all the way to trial. However, these changes would have opposite effects. Part of the panel function, therefore, would be to reach compromises when this kind of conflict arises. This, in effect, simulates the real-life process by which attorneys and judges have to resolve differences as to how the justice system should operate.

Results of a Feedback Experiment

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The results of a completed feedback experiment are:

- the quantitative impact analysis with human feedback; a description of the system outputs which reflect the modified behavior of the system actors following the legislative/rulemaking change, or management action, which has been the subject of analysis;
- a completed record of how the panel of experts interacted, both with each other and with the computer simulation, in the process of determining what the post-change outputs would be;
 - a detailed documentation of conflicts which occurred between panel members during the experiment.

Diagram of the Justice Resource Computer Model

The computer model used in our justice impact analysis is represented in Figure 1. This diagram shows the stages of activity in the computer model, and the directions in which cases and resources flow. This is intended as a very brief overview of the model. A much more detailed explanation will be provided at the orientation meeting. The following is a key to the letter and number codes on the diagram:

Model Inputs

- A. Filing rates: interarrival rate for cases
- B. Profile: frequencies of different case activities

injunction

trial (episodes)

other courtroom appearances

noncourtroom activities (judge)

noncourtroom activities (attorney)

external delay events

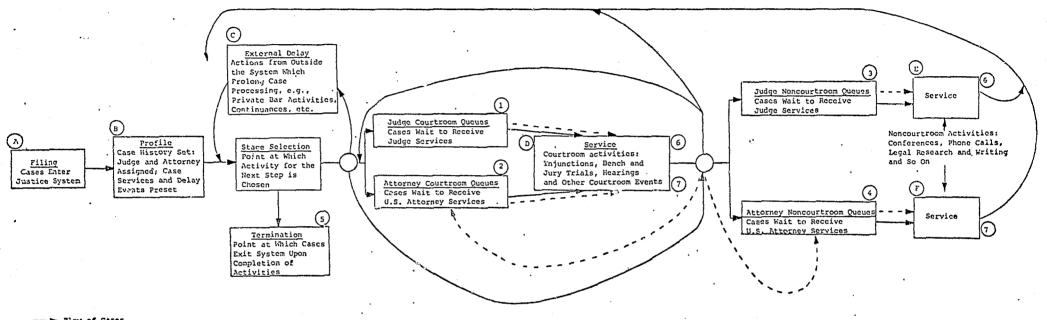
C. External delay: duration of delay events

D. Courtroom service: <u>duration</u> of courtroom events injunction

trial (bench or jury)

other courtroom appearances

- E. Noncourtroom service (judge): <u>duration</u> of noncourtroom events
- F. Noncourtroom service (attorney): <u>duration</u> of noncourtroom events



> Flow of Cases - Flow of Resources

Figure 1

JUSTICE RESCURCE MODEL

Overview of Flow of Cases and Resources

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Model Outputs

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- 1. Judge courtroom queues
 - number of cases waiting time spent waiting (per case)
- 2. Attorney courtroom queues

number of cases waiting time spent waiting (per case)

3. Judge noncourtroom queues

number of cases waiting

time spent waiting (per case)

4. Attorney noncourtroom queues

number of cases waiting

time spent waiting (per case)

5. Terminations

number of case completions by case type total time in the system by case

6. Judge utilization

amount of judge time spent on case-related activities

7. Attorney utilization

amount of attorney time spent on case-related activities

PANELIST: JUDGE

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CALIBRATION RECORD

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VARIABLES		I	LEVELS OF	CHANGE
Output	Baseline (Hypothetical Data)	Some	Moderate	Significant
Utilization	678	<u>+</u> 5%	<u>+</u> 10%	+11%
Case completions per year	. 500 cases	<u>+</u> 15	. <u>+</u> 25	<u>+</u> 26
Elapsed time per case	300 work days	<u>+</u> 7	<u>+</u> 20	<u>+</u> 21
Backlog of cases awaiting service - courtroom	5 cases	<u>+</u> .5	<u>+</u> 1	<u>+</u> > 1
Backlog of cases awaiting service - noncourtroom	10 cases	<u>+</u> 1	+ 2	<u>+</u> > 2
Input or Processing				
Probability of trial		<u>+</u> .5	<u>+</u> 1	<u>+</u> > 1
Courtroom time for tried cases	3.5 days	<u>+</u> .5	<u>+</u> 1	<u>+</u> > 1
Noncourtroom time for tried cases (attorney)	15 days	<u>+</u> 1 [.]	<u>+</u> 3	<u>+</u> > 3
Courtroom time for cases that do not go to trial	25 days	<u>+</u> •5	<u>+</u> 1	<u>+</u> > 1
Noncourtroom time for cases that do not go to trial (attorney		<u>+</u> .5	<u>+</u> 2	<u>+</u> > 2

PANELIST: PRIVATE BAR

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CALIBRATION RECORD

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VAR	IABLES		I	LEVELS OF	CHANGE
	Output	Baseline (Hypothetical Data)	Some	Moderate	Significant
	Utilization	67%	<u>+</u> 3%	<u>+</u> 10%	>10%
	Case completions per year	500 cases	<u>+</u> 20	<u>+</u> 40	>40
	Elapsed time per case	300 work days	<u>+</u> 10	<u>+</u> 25	>25
	Backlog of cases awaiting service - courtroom	5 cases	<u>+</u> <1	<u>+</u> 1	>1
	Backlog of cases awaiting service - noncourtroom	10 cases	<u>+</u> 1	<u>+</u> 2	>2
•	Input or Processing				
	Probability of trial	6%	<u>+</u> <1	<u>+</u> 1	· >1 ·
	Courtroom time for tried cases	3.5 days	<u>+</u> •5	<u>+</u> 1	>1
	Noncourtroom time for tried cases (attorney)	15 days	<u>+</u> 1	<u>+</u> 3	>3
	Courtroom time for cases that do not go to trial	25 days	<u>+</u> .5	<u>+</u> 1	>1
	Noncourtroom time for cases that do not go to trial (attorney)	10 days	. <u>+</u> 1	+ 2	>2

PANELIST: U.S. ATTORNEY

POSITIVE

CALIBRATION RECORD

VARIABLES]]	LEVELS OF	CHANGE
Output	Baseline (Hypothetical Data)	Some	Moderate	Significant
Utilization	67%	70	72	77
Case completions per year	500 cases	525	550	575
Elapsed time per case	300 work days	325	350	400
Backlog of cases awaiting service - courtroom	5 cases	5.5	6	. 7
Backlog of cases awaiting service - noncourtroom	10 cases	11	13	15
Input or Processing			-	
Probability of tria	. 6%	78	98	10% or more
Courtroom time for tried cases	3.5 days	4.0	4.5	5
Noncourtroom time for tried cases (attorney)	15 days	17	20	23
Courtroom time for cases that do not go to trial	25 days	3.0	3.5	4 or more
Noncourtroom time for cases that do no go to trial (attorno		11	12	13

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PANELIST:

U.S. ATTORNEY

NEGATIVE

CALIBRATION RECORD

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VAR	IABLES]	LEVELS OF	CHANGE
	<u>Output</u>	Baseline (Hypothetical Data)	Some	Moderate	Significant
	Utilization	67%	66	64	60
	Case completions per year	500 cases	475	450	425
	Elapsed time per case	300 work days	290	275	250
	Backlog of cases awaiting service - courtroom	5 cases	4.	3	2
	Backlog of cases awaiting service - noncourtroom	10 cases	9	. 7	5
	Input or Processing	· · .			
	Probability of trial	6%	5	· 4.5	4.0
·	Courtroom time for tried cases	3.5 days		3.0	2.5
-	Noncourtroom time for tried cases (attorney)	15 days	13	11	9
	Courtroom time for cases that do not go to trial	25 days		2.0	1.5
	Noncourtroom time for cases that do not go to trial (attorney	10 days	9	. 8	7

Round # _____1

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Actor Type _____Judge

	OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
	Spend 2/3 of additional time on court- room activities. 1/3 on non-courtroom activities.	1. Backlog for courtroom activities needs to be reduced much more than does backlog for non- courtrocm activities.
2.	Give first courtroom priority to injunctions.	2. Need immediate attention.
3.	Give courtroom priority to criminal cases that would otherwise be in dan- ger of failure to comply with Speedy Trial Act requirements.	3. Failure to comply with STA will require dismissal of criminal cases.
4.	Give next courtroom priority to oldest civil cases (older than 6 months).	4. Reduce civil case backlog.
5.	Give next courtroom priority to other civil cases involving U.S. (public civil cases).	5. Public civil cases probably more important than private civil cases. Put pressure on civil cases older than 6 months - many will settle may increase my noncourtroom activities.
6.	Give next courtroom priority to other civil cases not involving U.S. (private civil cases).	6. Less important than public civil cases.
7.	Give next courtroom priority to other criminal cases.	7. No hurry, so long as disposition complies with STA.
8.	Non-courtroom activity priorities:	8. Non-courtroom activity should be in prepara-
	a) preparation for 2-7 above, in that order	tion for or related to courtroom activity before one engages in other types of non-courtroom activity.
	b) other activity relating to 2-7 above, in that order	
	c) other activity	

Round # 1

Actor Type _____ Bar

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OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
Impact on the private bar cannot be measured by looking only at the federal system.	1. Diversity cases will be taken out of the federal system, but presumably most of these cases will be filed in the state courts. Without data on the impact on the state systems of this influx of diversity cases, the impact on the private bar cannot be evaluated. Attorneys may simply spend the same time and resources in state courts.
The significant reduction in the backlog of judges (courtroom and noncourtroom) might result in more private case filings. Any increase, however, would be mitigated by the slightly smaller reductions in attorney backlogs.	2. The availability of judges would lead logi- cally to more filings. This assumes that there are cases that are not now filed that could be perhaps an erroneous assumption given the many reasons attorneys file as a settlement tactic, on principle, etc., that are not related to a desire for courtroom treatment. If such an increase occurred, it would be small.
The high-moderate increase in the completion of criminal cases may cause a decline in civil filings.	3. Many attorneys handle, in federal courts, both civil and criminal matters. Increased criminal case completions will force these attorneys to neglect their civil matters in favor of criminal cases. Given the existence of a specialized criminal bar, however, this change may be small.
·	
	POTENTIAL ACTOR ADAPTATION Impact on the private bar cannot be measured by looking only at the federal system. The significant reduction in the backlog of judges (courtroom and noncourtroom) might result in more private case filings. Any increase, however, would be mitigated by the slightly smaller reductions in attorney backlogs. The high-moderaie increase in the completion of criminal cases may

Round # _____

Actor Type _____ Federal Attorney

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
Some reduction in preparation time for non-trial courtroom appearances in Civil/U.S. cases not subject to statutory priority.	 la. Change in judge non-courtroom queue is the only post-change result that would affect behavior. b. Good judge will over-schedule - i.e. too many cases set down for courtroom attention on a given day - on grounds that counsel will more often overestimate than under-estimate time required for an episode of courtroom service.
	c. Effect of over-scheduling is that often some case will take longer than expected and some other case will be "kicked over" - i.e. have to be rescheduled.
· · ·	d. "Kicking over" will be a frequent problem when the courtroom queue have four cases waiting (pre-change) but if it goes down to 2.34 (post-change), judge will most often be able to get through all cases scheduled. This means that this amount of reduction would eliminate the "kicking over" phenomenon.
	e. Consequence of having case kicked over is that counsel will have to prepare again for the courtroom activity that is re-scheduled.
· · · ·	f. Implication of queue length reduction is som savings in non-courtroom preparation time - i. reduction in non-courtroom processing time.

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Round # _____1

Actor Type <u>Federal Attorney</u> (cont)

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
	g. As it affects Federal attorneys, this reduction would be in civil cases that presently receive low priority in a judge's courtroom queue - cases other than those with a statutory priority.
· · · · · · · · · · · · · · · · · · ·	h. More specifically, the alleviation in the kicking-over problem will be in the preparation time for non-trial episodes that are not usually disposed of quickly - e.g. hearing on motion to suppress evidence. (Sub-point here is tendency of judge, in taking cases from his queue, to favor those which will not take much time).
	i. How much the kick-over problem affects Federal counsel, versus private counsel, and hence, how much improvement there would be in preparation time depends on at least two factors which may vary among Federal dis- tricts: (a) How geographically wide-spread the private bar is - attorney travelling a long way may not have case kicked-over. (b) Whether judges treat Federal litigators the same as private bar, or regard their time as being less important.
	j. Additional point concerning filing note: Alleviation of kick-over problem would make small monetary claim cases more economically attractive to private bar - would take some that are now passed over. This is a moot point here, since as regards Federal court, those would mainly be diversity jurisdiction cases.

Round # _____1

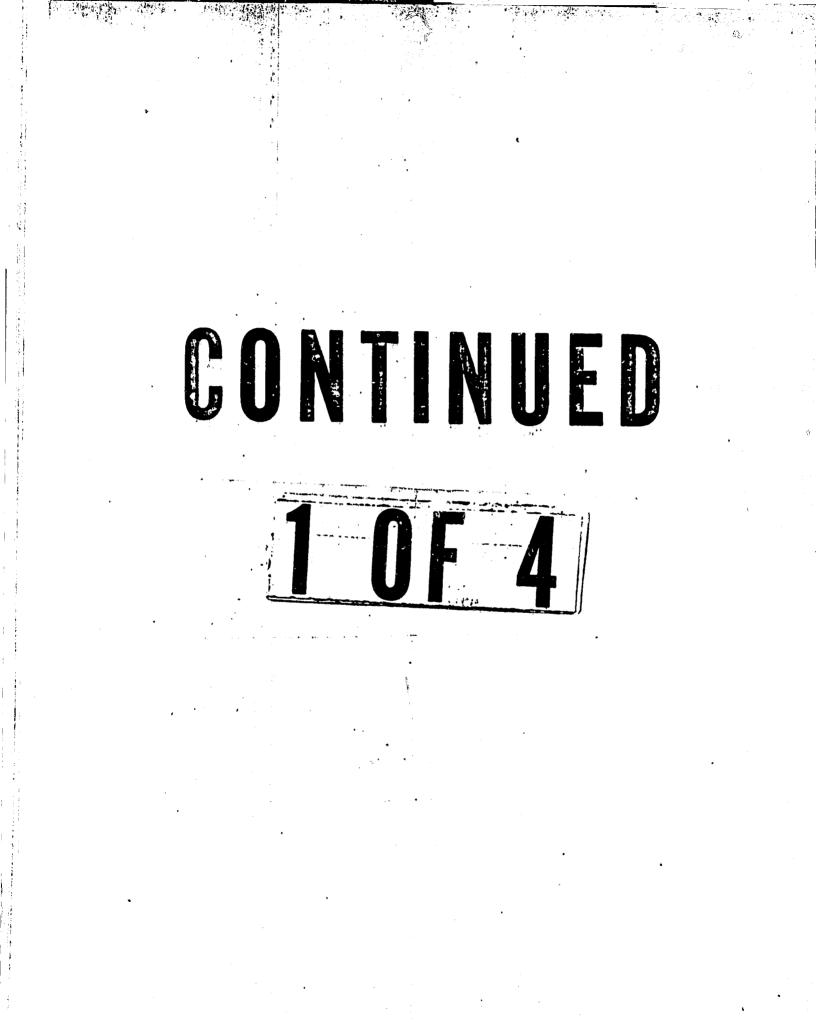
Actor Type _____ Federal Attorney (cont)

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
	k. Point as to private bar: When a case has to be re-scheduled, this will sometimes mean that private counsel is delayed in clearing up some matter that would advance the case - i.e. would shift the case over to Federal counsel for next activity.
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Translation - Round 1

Behavi	loral Change	Corresponding Parameter Change
in courtroo Diversity J eliminated, more aggres scheduling appearances noncourtroo would affeo	ificant reduction om backlog, with Jurisdiction cases , judge becomes ssive: accelerates of courtroom s and finishing om work. This of all case types, specially criminal	 .79 x duration of external delay - criminal cases .86 x duration of external delay - Civil/U.S., and Federal Question 1.21 x probability to external delay branch - Criminal 1.14 x probability of external delay branch - Civil/U.S., Federal Question (puts external delay at the front, and causes case process- ing activities to occur in more rapid sequence)
	accelerate #1 It in an increased	<pre>.79 x probability of trial - Criminal cases .86 x probability of trial - Civil/U.S. and Federal Question (more settlements = fewer trials)</pre>
room queue reschedulin for courtro alleviating having to p principally Federal att	ng of cases ready oom service, of the problem of prepare again,	Number of episodes of non- courtroom service, Civil/U.S., is reduced from 7 to 6 on premise that one of two nontrial courtroom appearances is a rescheduled event.



Translation - Round 1

- Behavioral Changes:
- 1. Given a significant reduction in courtroom backlog with Diversity Jurisdiction cases eliminated, judge becomes a more aggressive manager: accelerates the scheduling of courtroom appearances and the completion of noncourtroom work. This would affect all case types, but most especially criminal cases.
 - Judge predicts that the pressure to accelerate Civil cases in #1 would result in an increased tendency to settle.
 - 3. Reduction in judge courtroom queue means less rescheduling of cases ready for courtroom service, alleviating the problem of having to prepare again, principally affecting Federal attorneys in Civil/U.S. cases prior to trial.

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Round # _____2

Actor Type _____ Judge

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
1. Continue priorities with following changes:	
a) place private civil cases ahead of public civil cases for courtroom and non-courtroom activity.	la. Shorten disposition time of private civil cases significantly.
 b) delete the priority established in #7 in Round 1. 2. Increase time spent on case-related activities to 75% by handling 1 more courtroom case per day and .4 non- courtroom case per day. 	 lb. Unnecessary. 2. Effect very significant changes (upward) in average daily backlog of courtroom & non-courtroom activity and utilization time.
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Round # _____2

Actor Type ____ Private Bar

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
 Reduction in filings of all case types. 	la. "Junk" cases faced with reality of going to court, so fewer would be filed.
 Increase in filings of all case types. 	 b. Pressure of having to speed up handling existing cases will mean less time to spend on new cases. 2a. Tendency to file more cases given reduction in delay (if attorneys are turning away cases), meaning courts may be more attractive. b. If the judge becomes a better manager, and fewer cases are rescheduled, attorneys will spend less time on each case. This will leave time to file new cases.
3. Conclusion - These tendencies will cancel each other out and filings will not change.	3. (Reduction) change in elapsed time is not sufficient to make the use of courts attractive to potential litigants.

Round # ____2

Actor Type _____ Federal Attorney

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OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
USA would assign a moderate amount of routine criminal cases to AUSA's who normally handle civil cases.	la. Reduction in average elapsed time in criminal cases from 92.4 to 72.5 days is highly important, as it implies major increase in the pressure under which AUSA's assigned to criminal cases must work; particularly significant since, by statute, judge cannot pressure AUSA on criminal case for first 30 of those days; more significant than the reduction (and consequent increase in AUSA pressure) in Civil/U.S. cases.
	b. Increase in AUSA/criminal pressure enough to create serious morale problem, erode quality of performance, and push pro- secutor to breaking point; cannot tolerate any further reduction in elapsed time average for criminal cases.
•	c. Absent some alleviation of pressure, can expect "cheaper pleas" to be accepted, and somewhat more plea bargaining generally, resulting in further degradation in morale and quality of performance.
	d. One specific effect of pressure at the level implied by such a reduction in elapsed time would be that AUSA's could not work on cases as a series of complete, meaningful tasks; would have to be doing something on all cases every day, juggling them.

Round # 2

Actor Type _____ Federal Attorney (cont)

OPINION AS TO PREMISE POTENTIAL ACTOR ADAPTATION e. One rationale alternative to "cheap pleas" is to assign some of the routine criminal work to civil/U.S. AUSA's. This would hopefully be temporary. Given 12 AUSA/criminal and 5 AUSA/civil personnel - and it is assumed no additional personnel can be added to the litigation itself - the ease of doing this would depend on whether some of those 5 are already familiar with criminal case processing; otherwise, might have to draw on the civil AUSA's who are experienced litigators. f. If processing time has been reduced in criminal cases in response to growing pressure to move cases along, we would expect to find, after this reassignment of criminal work, quality of performance improve with a concommitant increase in preparation and some decrease in courtroom time in tried cases (owing to improved preparation). (Note: in Round 1, the changes in Resource Model parameters did not have AUSA/criminal personnel cutting corners, hence no need to restore any time on cases) g. Critical assumption relative to (c) above: We are assuming that a policy already exists referring to as many cases as possible to the States, and diversion is used to maximum extent - hence, there is no fat that could be

caseload.

trimmed through reduction in overall criminal

Translation - Round 2

	Behavioral Change	Corresponding Parameter Change
	Achieve significant reduction of time to dispose of private cases by placing them ahead of public cases, for judge service, and by placing more pressure on private bar to accelerate scheduling of courtroom appearances and noncourt- room activities.	Change private/public priority branching ratio from .5 to 1.25 x .5 = .625 and make significant reduction in external delay time (in judge involved cases) in Federal Question cases by reducing frequency of external delay from 3 to 2.
]. 1	Hopefully increase judge utilization rate by means of the behavioral change #1, above.	
3.	Alleviate significant over-work and morale problem for AVSA/criminal personnel implied by the substantial reduction in elapsed time through a moderate (but hope- fully temporary) policy of assigning some criminal cases to civil personnel.	Reassign one civil attorney to handle criminal cases.
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Translation - Round 2

Behavioral Changes:

 Achieve significant reduction of time to dispose of private cases by placing them ahead of public cases, for judge service, and by placing more pressure on private bar to accelerate scheduling of courtroom appearances and noncourtroom activities.

- 2. Increase judge utilization rate by means of the behavioral change in no. 1 above.
- 3. Alleviate significant overwork and morale problem for AUSA/criminal personnel implied by the substantial reduction in elapsed time in criminal cases through a moderate (but hopefully temporary) policy of assigning some criminal cases to civil personnel.

Round # _____3

Actor Type Judge

	OPINION AS TO POTENTIAL ACTOR ADAPTATION				PREMI	SE	
1.]	increase non-courtroom time spent on each case moderately.	1,	2.	Increase	judge	utilization	time
2. I I	ncrease courtroom activity in private cases moderately.						
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Round # _____3

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Actor Type _____ Private Bar

OPINION AS TO POTENTIAL ACTOR ADAPTATION	PREMISE
1. More plea bargaining in criminal cases.	1. Extra criminal U.S. Attorney, and decline in criminal elapsed time indicate extra pressure.
2. More time spent on civil/U.S. and federal question cases.	2. Increased civil and federal question comple- tions and increased federal question elapsed time indicate less attention being paid to these cases.
3. More delays requested on civil/U.S. cases.	3. Increased pressure to complete civil cases.
4. More out of court settlements for civil/U.S. cases.	4. Increased pressure to complete civil cases.
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Round 3 - U.S. Attorney unable to respond to outputs; wants to schedule a panel conference before proceeding.

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B-57

Translation - Round 3

	Behavioral Changes:	Corresponding Parameter Changes:
	Given the drop in the judge utilization rate, judges will become more deliberative: (a) spending more time on noncourtroom work for all case types, and also (b) increasing the courtroom activity in private cases.	 (a) Increase the duration of noncourtroom activities by 16%. (b) Increase the duration and frequency "other courtroom" appearances by 16% (change frequency from 2 to 3, and duration from 1.5 to 1.16).
2.	Given the pressure implied by the fast pace at which criminal cases are being processed, defense counsel will negotiate more pleas.	 Reduce the probability of going to trial for criminal cases by 10%.
3.	The dramatic increase in civil case completions show an unrealistic degree of coopera- tion by the private bar to the pressure being applied by the judge to speed up cases: private counsel will increase the time spent on federal question and civil/U.S. cases and will ask for more delays on civil/U.S. cases.	3. Increase by 16% the duration of external delay for federal question and civil/ U.S. cases, and increase by 16% the frequency of external delay episodes for civil/U.S. cases.
4.	The pressure to accelerate the scheduling for civil cases will cause a greater willingness on the part of private counsel to settle cases.	4. Decrease the probability of going to trial for civil/U.S. cases by 14%.

Translation - Round 3 Behavioral Changes

- Given the drop in the judge utilization rate, judges will become more deliberative: (a) spending more time on noncourtroom work for all case types, and also (b)increasing the courtroom activity in private cases.
- Given the pressure implied by the fast pace at which criminal cases are being processed, defense counsel will negotiate more pleas.
- 3. The dramatic increase in civil case completions show an unrealistic degree of cooperation by the private bar to the pressure being applied by the judge to speed up cases: private counsel will increase the time spent on federal question and civil/U.S. cases and will ask for more delays on civil/U.S. cases.
- 4. The pressure to accelerate the scheduling for civil cases will cause a greater willingness on the part of private counsel to settle cases.

ROUNDS 1-3

- 1. Judge accelerates case scheduling
- 2. Increase in civil case settlements

B-60

3. Reduction in AUSA preparation time, civil/U.S. cases

- 1. Judge places priority on private cases
- 2. Assign some routine criminal cases to AUSA/civil

- 1. More judge service time on cases
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- 2. Private defense counsel negotiate more pleas
- 3. Private counsel demand more time for civil cases
- 4. Private counsel more willing to settle

PANEL CONFERENCE

DIVERSITY JURISDICTION FEEDBACK EXPERIMENT

SUMMARY OF FEEDBACK RESULTS

ROUNDS 1-3

March 18, 1980

- 1. No increase in the rate of case filings.
- Judges push to accelerate caseflow to increase their own utilization rate, but it does not increase unless more work is created (e.g., more service time per case).
- 3. There is some appearance of a downward trend in elapsed times relative to baseline levels.

APPENDIX C

THE Q-GERT NETWORK: A TECHNICAL DESCRIPTION

• Q-GERT Conventions

• Q-GERT Output

- Node-by-Node Description of the Resource Model
- Feasible Stage Selection for Each Criminal Case Decision Point
- Description of Files
- Description of Q-GERT Inputs
- Q-GERT Input Data Format
- Listing of Data Cards and FORTRAN Listing

Q-GERT Conventions

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Q-GERT Conventions

Q-GERT is a network modeling vehicle and a computer analysis tool. GERT is an acronym for Graphical Evaluation and Review Technique. The Q is appended to indicate that queueing systems can be modeled in graphic form. A fundamental contribution of Q-GERT is its method for graphically modeling systems in a manner that permits direct computer analysis. The Q-GERT Analysis Program has been developed to provide this computer analysis.

Q-GERT satisfies the need for a network approach to the modeling of systems that involve procedural, risk and random elements. It provides industrial engineers, business analysts and operations researchers with a graphical vehicle for modeling, analysis and communication. It performs a function similar to that provided by circuit diagrams for electrical engineers, free body diagrams for mechanical and civil engineers, signal flow graphs and block diagrams for systems analysts and PERT/CPM networks for project managers. Q-GERT networks are models of systems that consist of activities, resources and queues. Q-GERT can be used in conjunction with project management, risk analysis and decision making.

Basically, Q-GERT supports a systems approach to problem resolution consisting of four steps. First, a system is decomposed into its significant elements. Second, the elements are analyzed and described. Third, the elements are integrated in a network model of the system. Fourth, system performance is assessed through the evaluation of the network model.

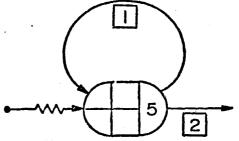
C-2

The network model is comprised of nodes, which may represent entry points, exit points, decision points, or points at which changes are made to transactions flowing through the network. Nodes are connected by branches, or activities, which may represent the expenditure of time, or which may simply serve to connect nodes, without the passage of time.

Each nodes is assigned a unique number, which appears in the righthand portion of the node. In addition values for attributes may be assigned within the node. The code for these values assignments are located in the central portion of the node. Activities may contain code indicating the probability of a transaction taking that path, the value of an attribute of transaction taking that path, or code for a time associated with that activity. Time assignments and value assignments may occur either directly through network coding or through additional FORTRAN programming, termed User Functions (UF).

Node types used in the system include the following:

<u>Source nodes</u>: used to generate transactions and place them into the system. Source nodes are characterized by an incoming flow symbol and an arc that represents the generation of transactions into the system.



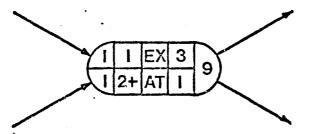
In this illustration, the node number of the source node is 5, 1 represents the for the generation of transactions, and 2 is the arc connecting the source node with the rest of the network.

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<u>Regular nodes</u>: used as decision points or points for value assignments to attributes. Regular nodes can be characterized by several different types of branching, or ways in which activities may be selected. Four types of branching used in regular nodes are represented by the following:

Rf is the number of incoming transactions required to release the node for the first time. R₂ is the number of incoming transactions required to release the node for all subsequent times. C is the criterion for holding the attribute set at a node. S is the statistics collection type or marking. # is the node number. indicates deterministic branching from the node. indicates probabilistic branching from the node. Conditional. indicates conditional-take Take-First first branching from the Branching node. Conditional, indicates conditional-take Take-all all branching from the Branching node.

Coding for value assignments for attributes is illustrated below:

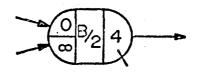


In this illustration, 1 EX 3 indicates that attribute 1 is to be assigned values sampled from an exponential distribution defined by parameter Set 3. 2+AT 1 indicates that a value of 2 is to be added to the value of attribute 1.

<u>Queue nodes</u>: used as waiting points for transactions requiring resource services, or for resources requiring their counterparts before service can begin. Oueue nodes generally take the following form:

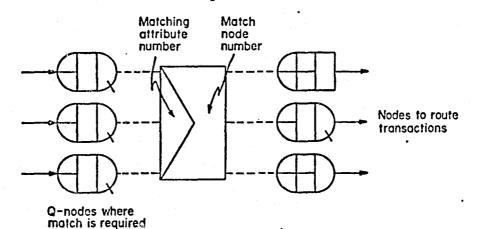


I is the initial number of transactions at the Q-node. M is the maximum number of transactions permitted at the Q-node. Ranking of transaction in the Queue nodes (R in the above illustrations may be based on the value of an attribute of the transactions in the queue, for example:



In this illustration, B/2 indicates that transactions are to be ordered on the basis of the biggest value of attribute 2. That is, the transaction with the biggest value of attribute 2 would be the first in the queue, and the transaction with the lowest value of attribute 2 would be the last in the queue.

<u>Match nodes</u>: used to combine resources or parts of cases that must proceed together through the network. Match nodes are always associated with queue nodes, which are the points at which resources or cases wait for their complement.



<u>Allocate nodes</u>: used to link transactions with resources when both are ready for service activity. Allocate nodes are always associated with queue nodes, which holds accumulating transactions until the resource is ready to provide service. Allocate nodes are also associated with free nodes, which release resources from cases to which they were providing service and returns the resources to allocate nodes.

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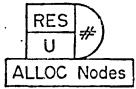
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20

In the above illustration, allocate node 20 indicates that 2 resources

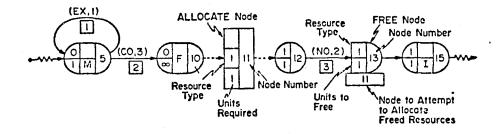
of type 1 are to be allocated.

<u>Free nodes</u>: used to release resource from cases to which they were providing service and returns the resources to allocate nodes. The form of the free node is as follows:



RES represents the resource to be freed, U represents the number of units of that resource to be freed, and ALLOC NODES represents the allocate node(s) to which the resource will return.

A typical sequence of queue, allocate and free nodes is as follows:



In this illustration, transactions wait for service at queue node 10. The transactions are linked with one resource of type 1 at allocate node 11. Service is performed on activity 12, 13. One unit of resource type 1 is freed at free node 13, and the resource unit is returned to allocate node 11.

This brief summary of Q-GERT methods and conventions should serve as an introduction to the Resource Model. For more extensive information about Q-GERT modelling, the reader is referred to <u>Modeling and</u> <u>Analysis Using Q-GERT Networks</u> (Pritsker: 1979), from which all of the illustrations in this section were drawn.

C-6

Q-GERT Output

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A. Description of format

The following material splices together the output of a computer simulation run using the Resource Model, and the relevant format descriptions from the Q-GERT manual.

++FINAL PECULTS FDP FIPST CIMULATION++

TOTAL ELAPSED TIME = 900.0000

** FINAL RESULTS FOR FIRST SIMULATION** TOTAL ELAPSED TIME-total time in days for the first simulation run **NODE STATISTICS**

NODE	LABEL	AVE.	STD.DEV.	NO OF OBS+	STAT TYPE
182	SPD-TEL		NO VAL	UES REC	ORDED
73	FED-QUES		NO VAL	UES REC	ORDED
72	DIV-JUR	84,8538	0.3242	1. 1. •	I.
71	CRIMINAL	5.1920	5.1911	23.	X
70	CIVIL/US		NO VAL	UES REC	ORDED

NODE STATISTICS—Headings for node statistics

NODE—sink or statistics node number

LABEL—eight character name associated with node

AVE.-the estimate of the mean time. The time could be a release time, a delay time or an interval of time (in this model it is

an interval of time)

STD.DEV.-the standard deviation of the time

NO OF OBS .- number of observations obtained during the first simulation run for the statistical variable of interest

STAT TYPE-statistics type specified for the node by the user; for this output, "I". Interval statistics (I), relates to the

transaction that releases the node. It records the interval of time from the marking of the transaction upon entering the network to the release time of the statistics node.

Q-GERT Output

NDIJE	LADEL	AVE.	MIN.	MAX.	CUPPENT NUMBER	AVERAGE
19	INJ-JUG	0.0	ó.	0.	0	0.0
20	INJ-ATT	0.0	0.	0.	0	0.0
39	TDC-JING	0.7691	0.	4.	5	0.2649
40	TD:-ATT	0.1262	0.	3.	<u>()</u>	0.0436
74	JD51-CT	1.2227	Ú.	15.	Ú	0.5426
75	JD62-CT	0.5622	0.	13.	2	0.3456
76	JI053-CT	0.5688	0.	6.	0	0.3339
77	JD64-CT	.0.8048	Û.	6.	0	0.4106
_78	JI055-CT	0.4003	<u> <u>0 </u></u>	5	<u>, </u>	0.2622
79	H1T1-CT	0,1676	Ú.	з.	Û	0.4122
80	ATT2-CT	0.1328	0.	2.	1	0.4425
81	ATT3-CT	0.1186	0.	з.	0	0.4875
82	ATT4-CT	0.0862	0.	2.	Q Q.	0.2614
83 84	ATTS-CT .	0.1187	. Ŭ. 0.	2. 5.	1	0.3672 0.7185
84	ATT6-CT ATT7-CT	0.3760 0.1270	0. 0.	υ. ε.	1 0	0.4282
- <u></u> 86	AT18-LT	0.0573	<u> </u>	ź.	Ŭ	Ú.1606
87	ATT9-CT	0.0535	0.	2.	Ŭ Ū	0.1671
83	ATT10-CT	0.0636	<i>0</i> .	ε.	i û	0.2008
89	ATT11-CT	0.0482	Ŏ.	Ξ.	Õ	0.1808
90	ATT12-CT	0.0376	ö.	2.	õ	0.1298
91	ATT13-CT	0.0413	0.	Ξ.	õ	0.1425
124	JD61-HC	2.4103	<u>0.</u>	25.	3	1.1496
125	JII62-NC	0.8687	0.	10.	1	0.4517
126	J163-NC	2.3687	0.	20.	0	1.0702
127	JD64-NC	1.5577	0.	16.	0	0.7430
128	JD65-HC	0.9505	0.	10.	<u> </u>	0.4562
129	ATT1-HC	1.5342	Ú.	10.	1	1.7435
130	ATT2-NC	2.1154	0.	11.	0	2.6333
131	ATT3-NC	0.6070	0.	5.	0	0.9060
132	ATT4-NC	0.8383	0.	6.	0	1.0702
133	ATT5-NC	1.0438	Û.	.7.	. 2	1.3213
134	ATT6-NC	5.0384	0.	14.	3	4.4985
135	ATT7-HC	0.9718	0.	7.	0	1.2620
136	ATTS-NC	1.1588	0.	11.	2	0.7009 0.5834
137	ATT9-NG	1.0424	0.	8.	1 0	1.0577
138	ATT10-NC ATT11-NC	$1.7876 \\ 0.9557$	0. 0.	13.	0	0.5757
139 140	ATT12-NC	0.3297	0.	5.	0	0.2549
141	ATT13-NC	0.3277	0.	6.	0	0.2900
185	PF:1-M-J1	0.0	Û.	1.	Ü	Ú.Ú
199	PRI-M-J2	0.0	ů.	. 1.	õ	0.0
200	PPI-M-J3	0.0	Û.	1.	õ	0.0
201	FFI-M-J4	0.0	ΰ.	1.	Û	0.0
202	FF1-M-15	0.0	0.	1.	0	0.0
191	PP1-,11	0.8305	Ŋ.	ч,	Ú	0.6921
192	PPI-J2	() 4599	0.	· 10.	1	0.4824
193	FF1-J3	0.3542	0.	5.	0	0.3651
194	FFI-J4	0.6026	U.	6.	Û	0.5333
195	PR1-J5	0.2719	Ú.	· 4.	0	0.2966

****NUMBER IN Q-NODE****—section of the report which provides information on Q-node statistics

NODE—the Q-node number for which statistics are to be printed

LABEL—a user supplied name associated with the Q-node

AVE.—the time weighted average number of transactions in the Qnode for the first simulation run

MIN.—the minimum number of transactions in the Q-node for the first simulation run

MAX.—the maximum number of transactions in the Q-node for the first simulation run

• CURRENT NUMBER—the number of transactions in the Q-node at the end of the first simulation run

RESOURCE	LABEL	NDW	AVE.	M8X.	NOW	AVE.	MAX.
		IN USE	IN USE	IN USE	AVAILABLE	AVAILABLE	AVAILABLE
1	JUDGE1	1	0.795	1	0	0.205	1
5	JUDGE2	- 1	0.665	-	õ	0.335	1
3	JUDGE3	0	0.757	1	1	0.243	1
				I	-		1
4	JUDGE4	0	0.752	1	1	0.248	1
	JUDGES	0	0.669	1	1	0.331	1
6	ATTY1	1,	0.784	1	0	0.216	1
7	ATTY2	1	0.701	1	0	0.299	1
8	ATTY3	1	0.590	1	0	0.410	1
9	ATTY4	1	0.695	1	0	0.305	1
10	ATTY5	1	0.687	1	Û	0.313	1
11	ATTY6	1	0.984	1	0	0.016	1
12	ATTY7	. 0	0.685	1	1	0.315	1
13	ATTYS	1	0.664	1	0	0.336	1
14	ATTY9	1	0.719	1	0	0.281	1
15	ATTY10	0	0.692	1	1	0.308	1
16	ATTY11	1	0.663	1	Û	0.337	1
-17	6TTY12	0.	0.524	'1	1	0.476	1
18	ATTY13	· 1	0.630	1	Q	0.370	1

++RESOURCE UTILIZATION++

RESOURCE UTILIZATION—heading to indicate resource utilization section of the report

RESOURCE—the resource number

LABEL—the user supplied name associated with the resource type

NOW IN USE—the number of resource units in use at the end of the first simulation run

AVE. IN USE—the time weighted average number of resource units in use for the first simulation run

MAX. IN USE—the maximum number of resource units in use during the first simulation run

NOW AVAILABLE—the number of resource units available for use at the end of the first simulation run

AVE. AVAILABLE—the time weight average number of resource units available for use for the first simulation run

MAX. AVAILABLE—the maximum number of resource units available during the first simulation run

B. User outputs

In addition to the standard Q-GERT outputs for each simulation run, the current versions of the Resource and Criminal Models have output formats developed specifically for them. These outputs measure more precisely the types of information desired for JRE studies.

The first type of user statistic is resource utilization calculated as the time the resources actually spend working on cases. The standard Q-GERT utilization statistic is the amount of time resources spend working and the time they spend waiting in hold queues for other resources. The user statistic does not add in time spent waiting for other resources. Figure C-1 is computer output showing this user statistic for utilization.

The second type of user statistic is the number of cases realizing (reaching) various points in the Criminal Justice Sequential Model (see Figure C-2). The far left column names each node of interest, beginning with investigation, through incarceration (these points parallel the Criminal Justice Caseflow Model, Diagram II-I). Beginning with declination - 1, the following nodes represent sink nodes, or points at which cases exit the system. The sum of cases passing through those nodes represents the total criminal completions for the specified time period. The second column, labeled AVE, is the average amount of time a case takes to reach that node from the time the case enters the system. STD DEV is the standard deviation of the time, SD OF AVE is the standard deviation of the averages, and MINIMUM and MAXIMUM are the shortest and longest times of cases entering that node. OBS is the number of times cases passed through that node. This should not be confused with the number of cases passing through the node, because, in some places, it is possible for a case to pass through a node more than once (e.g., some cases may be investigated more than once).

The third user output is titled "Output Report" (Figure C-3). This report averages the standard Q-GERT statistics and user statistics and provides standard deviations and standard errors for each. Utilization is the average over resources and over runs for each resource type. Elapsed time provides the averages over runs for each case type, as does number of completions. Average waiting time is the average amount of time judges and attorneys spend waiting in the courtroom areas. Average queue length is the average number of cases in each type of queue over runs.

FIGURE C-1

User Statistics for Utilization

	USER Mean	STATISTICS FOR STD DEV	TIME-PERSISTENT MINIMUM	VARIABLES AT TIME Maximum	0.1500E+04 IN RUN TIME INTERVAL	3 CUR• VALUE
JUDGE1	0.6495E+00	0.4771E+C	0.0	0.1000E+01	0.1500E+04	0.0
JUDGE2	0.6368E+00	0+4809E+C	0.0	0.1000E+01	0.1500E+04	0.1000E+01
JUDCE3	0.6659E+00	0.4717E+0	0.0	0.1000E+01	0.1500E+04	0.0
JUDGE4	0.6386E+00	0.4804E+0	0.0	0.1000E+01	0.1500E+04	0.1000E+01
JUDGE5	0.6361E+00	0.4811E+C	0.0	0.1000E+01	0.1500E+04	0.0
ATT1	0+6302E+00	0.4827E+0	0.0	0.1000E+01	0.1500E+04	0.0
ATT2	0.6205E+00	0.4853E+C	0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT3	0.5770E+00	0+4940E+0	0.0	0.1000E+01	0.1500E+04	0.0
ATT4	0.6575E+00	0.4745E+0	0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT5	0.5725E+00	0+49470+0	0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT6	0.6135E+00	0+4869E+0	0.0	0.1000E+01	0.1500E+04	0.0
ATT7	0.6231E+00	0+4846E+0	0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATTB	0,2666E+00	0.44228+0	0.0	0+1000E+01	0.1500E+04	0.0
ATT9			NO Vi	ALUES RECORDED		V • V
ATT10	0.7481E+00	0.4341E+0	0 0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT11	0.7311E+00	0+4434回十0	0 0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT12	0.7113E+00	0+4531E+0	0 0.0	0.1000E+01	0.1500E+04	0.1000E+01
ATT13	0.7070E+00	0.4551E+0	0.0.0	0.1000E+01	0.1500E+04	0.1000E+01

C-11

FIGURE C-2

8 1

Observations in Criminal Sequential Model

USER STATISTICS F	FOR VA	ARIABLES	BASED	0N	OBSERVATION	AT	TIME	100.000	IN RUN	1
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	AVE	STD DEV	SD OF AVE	MININUM	MAXIMUM	OBS	
INVSTGTN	0+4086	1.0091	0+0730	0.0	7,5048	191	
GRNDJURY				3 RECORDED			
INDIMNT	245 Pro & 100 J			3 RECORDED			
ARRONMNT	2.5451	2.8351	0+3413	0.1958	13,7086	69	
INFRMIN	1.4054	1.2746	0+2289	0,1726	4,5379	31	
I.C.PREP	2+7188	1,4653	0,3916	0,9250	6+0860	14	
PLEABRON	5.3095	- 3 • 0836	0+4318	0.7624	14.7841	51	
RE-ARGN	8+2687	4.2530	1+4177	4.0807	17.8396	9	
F.C.PREP	5.2124	2.9780	0.7019	1.8255	11.7204	18	
BENCH	7.2605	3.5356	1.1785	4.3984	14.2214		
JURY	9.8752	2.9277	0.9759	6.3634	15.9155	9 9	
PRE-SENT	8.3670	6+0791	0+9862	0.2567	28,9855	38	
SENTPREP	8.8805	6.1956	1.0034	0.5982	29,4330	38	
SENTENC	10,1151	6+0802	0.9863	0.8928	30,1931	38	
DECLIN-1	1.6367	1+5936	0+3656	0,3153	7,5951	19	
STATE-CT	1 • 49 47	1+3312	0,3055	0.2433	5.7590	19	
NO BILL			NO VALHES	S RECORDED	$\omega + \gamma \omega \gamma \sqrt{2}$	4. 7	
COMM-SER	1,9951	1,9240	0.5142	0,3593	5+9248		
VOL-PROB	2+0788	2,3350	0.4263	0.3303		1.4	
DECLIN-2	5.3250	4.1382	1.3794	0+4238	9,9249	30	
DECLIN-3	3,3365	1.0993	0.7773	2.5592	13.8275	9	
AQUITTAL	15,3429	4.4039	1.9695	2+00711	4,1139	2	
FINES	13.5145	5,8601	3,3833	9.8403	20.5059	5	
APPEAL	13.9191	6,2852	3.6288	8.1267	20.2726	3	
PROBATN	10.5401	5.1485	1.8203		20.6022	3	
MIXED-ST	11+8781	8,0509	3,2868	5,6292	20.9711	8	
PAROLE	12.6905	4.7047	2.1040	1.0424	20,9939	6	
SPLIT-ST	10.2196	6.4571	3.2285	8,7584	20,5298	5	
INCARTN	18,4860	20.5025	14,4974	1.5944	16.0006	.4	
		and he is the he had he	J. 77 + 77 7 2 54	3+9886	32.9834	2	

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FIGURE C-3

OUTPUT REPURT

OUTPUT VARIABLE	MEAN	STD DEV	STD ERR
- Win any and this into the two and the back that the two and the back and the back the back the back the set		Peu an , se , an, se , the test to the test	
UTILIZATION			
JUNGE	0.34	0+0	0.0
ATTORNEY (CRIMINAL)	1.00	0.0	0.0
ATTORNEY (CIVIL)	0.46	0.0	0.0
ELAPSED TIME			
FEDERAL QUESTION	NO	VALUES REC	ORDED
DIV. JUR.	NO	VALUES REC	ORDED
CRIMINAL	16+68	0.0	0.0
CIVIL/U.S.	NÜ	VALUES REC	ORDED
NO. OF COMPLETIONS			
CIVIL/U.S.	0.0	0.0	0.0
CRIMINAL	9.50	13.44	9.50
DIV. JUR.	0+0	0.0	0.0
FEDERAL QUESTION	0.0	0.0	0.0
AVERAGE WAITING TIME		Υ.	
TOC-JDG	0.05	0.02	0.02
TOC-ATT	0+06	0.07	0.05
AVERAGE QUEUE LENGTH			
JDG-CT	0.34	0.0	0.0
ATT-CT (CRIMINAL)	1.84	0+0	0+0
ATT-CT (CIVIL)	0.07	0.0	0.0
JIIG-NC	0.40	0.0	0+0
ATT-NC (CRIMINAL)	29.27	0+0	0+0
ATT-NC (CIVIL)	0.35	0+0	0.0
PRI-J	0.13	0.0	0.0

Node-by-Node Description of the Resource Model

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Node-by-Node Description of the Resource Model

INITIALIZATION

NODE

- 41 CRIMINAL CASE GENERATION NODE Activity,41,41: Generates cases at a rate sampled from an exponential distribution of parameter set 1 (EX,1)
- 42 CRIMINAL FRONT LOADING NODE 1 in 1: Assigns a number to each transaction as ATTRIB 1 beginning with 1 and incrementing by 1 Activity,42,42: Generates cases in 0 time up to the number desired: A1.EQ.
- 43 CIVIL/U.S. CASE GENERATION NODE Activity,43,43: Generates cases at a rate sampled from an exponential distribution of parameter set 2 (EX,2)

44 CIVIL/U.S. FRONT LOADING NODE 1 in 1: Assigns a number to each transaction as ATTRIB 1 beginning with 1 and incrementing by 1 Activity,42,42: Generates cases in 0 time up to the number desired: A1.EQ.

- 45 FEDERAL QUESTION CASE GENERATION NODE Activity,45,45: Generates cases at a rate sampled from an exponential distribution of parameter set 3
- 46 FEDERAL QUESTION FRONT LOADING NODE 1 in 1: Assigns a number to each transaction as ATTRIB 1 beginning with 1 and incrementing by 1 Activity,46,46: Generates cases in 0 time up to the number desired: Al.EQ.
- 47 DIVERSITY JURISDICTION CASE GENERATION NODE Activity,47,47: Generates cases at a rate sampled from an exponential distribution of parameter set 4

48 DIVERSITY JURISDICTION FRONT LOADING NODE 1 in 1: Assigns a number to each transaction as ATTRIB 1 beginning with 1 and incrementing by 1 Activity,48,48: Generates cases in 0 time up to the number desired: A1.EQ.

- 150 2 UF 2: User Function 2 assigns a number to ATTRIB 2 (attorney number) by random sampling from all civil/U.S. attorneys. Probabilistic branching on judge vs. no judge for civil/U.S. cases.
- 152 2 CO 1: A constant value of 1 is assigned to ATTRIB 2 (attorney number) as an indentifier for Federal Question cases. Probabilistic branching on judge vs. no judge for Federal Question cases.
- 154 2 CO 2: A constant value of 2 is assigned to ATTRIB 2 (attorney number) as an identifier for Diversity Jurisdiction cases. Probabilistic branching on judge vs. no judge for Diversity Jurisdiction.
- 49 11 UF 57: Test for speedy trial; track time from arraignment Branch to 182 on All = 0 speedy trial completions.
- 52 3 UF 3: User Function 3 assigns a number to ATTRIB 3 (judge number) by random sampling from all judges. 4 UF 4: User Function 4 assigns number to: ATTRIB 4: Frequency of external delay, sampled from a distribution for civil/U.S. cases (Parameter Set 21) ATTRIB 5: Frequency of injunction activities sampled from a distribution for civil/U.S. cases (Parameter Set 22) ATTRIB 7: Frequency of other courtroom activities, sampled from a distribution for civil/U.S. cases (Parameter Set 23) ATTRIB 8: Frequency of judge noncourtroom activities, sampled from a distribution for civil/U.S. cases (Parameter Set 24) ATTRIB 8: Frequency of attorney noncourtroom activities sampled from a distribution for civil/U.S. cases (Parameter Set 24)

NODE

53

3 UF 3: User Function 3 assigns a number to ATTRIB 3 (judge number) by random sampling from all judges.
4 UF 4: User Function 4 assigns numbers to:
ATTRIB 4: Frequency of external delay, sampled from a distribution for Federal Question cases (Parameter Set 7)
ATTRIB 5: Frequency of injunction activities, sampled from a distribution for Federal Question cases (Parameter Set 8)
ATTRIB 7: Frequency of other courtroom activities, sampled from a distribution for Federal Question cases (Parameter Set 8)
ATTRIB 7: Frequency of other courtroom activities, sampled from a distribution for Federal Question cases (Parameter Set 9)
ATTRIB 8: Frequency of judge noncourtroom activities, sampled from a distribution for Federal Question cases (Parameter Set 9)

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3 UF 3: User Function 3 assigns a number to ATTRIB 3 (judge number) by random sampling from all judges. 4 UF 4: User Function 4 assigns numbers to: ATTRIB 4: Frequency of external delay, sampled from a distribution for diversity jurisdiction cases (Parameter Set 67) ATTRIB 5: Frequency of injunction activities, sampled from a distribution for diversity jurisdiction cases (Parameter Set 12) ATTRIB 7: Frequency of other courtroom activities, sampled from a distribution for diversity jurisdiction cases (Parameter Set 12) ATTRIB 8: Frequency of judge noncourtroom activities, sampled from a distribution for diversity jurisdiction cases (Parameter Set 13)

11 UF 29: User Function 29 assigns a number to ATTRIB 11
(routing attribute):
1 represents trial
0 represents no trial
Based on probability of trial vs. no trial for each case type.

11 UF 30: User Function 30 assigns a number to ATTRIB 11
(routing attribute):
1 represents bench trial
2 represents jury trial
Based on probability of bench vs. jury trial for each case type.

- 57 6 CO 0: Assigns a constant value of 0 to ATTRIB 6 (trial attribute), for cases with no trial.
- 58 6 CO 1.1: Assigns a constant value of 1.1 to ATTRIB 6 (trial attribute), for cases with bench trial.
- 59

6 CO 1.2: Assigns a constant value of 1.2 to ATTRIB 6 (trial attribute), for cases with jury trial.

151 4 UF 33: User Function 33 assigns a number to: ATTRIB 4: Frequency of external delay sampled from a distribution for civil/U.S. cases with no judge (Parameter Set 62) ATTRIB 3,5,6,7: All set to 0 (judge number, frequency of injunction, trial, frequency of other court activities).

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NODE

4 UF 32: User Function 32 assigns a number to: ATTRIB 4: Frequency of external delay, sampled from a distribution for Federal Question cases with no judge (Parameter Set 61) ATTRIB 3,5,6,7,8,9: All set to 0 (judge number, frequency of injunction, trial, frequency of other court activities, frequency of judge noncourtroom activities, frequency of attorney noncourtroom activity).

155 4 UF 31: User Function 31 assigns a number to: ATTRIB 4: Frequency of external delay sampled from a distribution for diversity jurisdiction cases with no judge (Parameter Set 60) ATTRIB 3,5,6,7,8,9: All set to 0 (judge number, frequency of injunction, trial, frequency of other court activities, frequency of judge noncourtroom activities, frequency of attorney noncourtroom activities).

. 1 UF 35: User Function 35 assigns a number to ATTRIB 1 (case identifier) that is unique to each case.

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STATE SELECTION

NODE	
50	11 UF 5: User Function 5 assigns a number to ATTRIB 11 (routing attribute) 1 = case not completed (ATTRIB 4,5,6,7,8, or $9 = 0$) 2 = case completed (ATTRIB 4,5,6,7,8 and $9 = 0$) Return to network if this is a criminal case.
62	Completed case branches on value of ATTRIB 2 (attorney number or case type) ATTRIB $2 \ge 6 \le 13$: Civil/U.S. ATTRIB $2 = 2$: Federal Question ATTRIB $2 = 1$: Diversity Jurisdiction
70	Civil/U.S. case statistics node Interval statistics collected.
71	Criminal case statistics node Interval statistics collected.
72	Diversity Jurisdiction statistics node Interval statistics collected.
73	Federal Question statistics node Interval statistics collected.
161	11 UF 34: Tests on value of ATTRIB 4 for all except criminal cases. Noncompleted case branches on value of ATTRIB 4 (frequency of external delay) ATTRIB 4 = 0: no remaining external delay ATTRIB 4 \geq 0: external delay remains
162	<pre>11 UF 49: User Function 49 tests on probability of external delay for all case types Cases with remaining external delay branch probabilistically to: select external delay stage or route to node 61 to select from all possible stages</pre>
61	Stage selector node 11 UF 6: User Function 6 randomly selects a value for ATTRIB 11 (routing attribute) from the following values:
	<pre>64 = injunction activity 65 = other court activity 66 = bench trial activity 67 = jury trial activity 68 = judge noncourtroom activity 69 = attorney noncourtroom activity 63 = external delay activity Branch to Node 71 for criminal completions on All = 71 If the case is criminal, next stage is selected based on criminal flow Branch to node 71 for criminal completions on All = 71.</pre>

63	External delay selection node 10 UF 50: User Function 50 sets queue ranking for external delays 4 UF 43: Decrements ATTRIB 4 (frequency of external delays) by one
64	Injunction selection node 10 UF 51: User Function 51 sets queue ranking for injunction.
65	Other court selection node 10 UF 52: User Function 52 sets queue ranking for other courtroom
66	Bench trial selection node 10 UF 53: User Function 53 sets queue rankings for trial 6 UF 7: User Function 7 sets the number of bench trial episodes by sampling from frequency distributions: Card 15: frequency of bench trial episodes for criminal cases Card 31: frequency of bench trial episodes for civi1/U.S. cases Card 43: frequency of bench trial episodes for federal question cases. Card 52: frequency of bench trial episodes for diversity juris- diction cases User Function 7 also adds a constant value of 1000 (bench trial marker to the frequency that was sampled)
67	Jury trial selection node 10 UF 53: User Function 53 sets queue ranking for trial 6 UF 8: User Function 8 sets the number of jury trial episodes by sampling from frequency distributions: Card 16: frequency of jury trial episodes for criminal cases Card 32: frequency of jury trial episodes for civil/U.S. cases Card 44: frequency of jury trial episodes for federal question cases Card 53: frequency of jury trial episodes for diversity jurisdiction cases User Function 8 also adds a constant value of 2000 (jury trial marker) to the frequency that was sampled

COURTROOM AREA

NODE

51	Branches to private case node (196) judge queues (74-79) and attorney queues (79-91,224) based on value of Attribute 3 (judge number) and Attribute 2 (attorney number) ATTRIB 3 = 1 through 6 branch to appropriate judge queue (74-79) ATTRIB 2 = 1,2 branch to private case queue (196) ATTRIB 2 = 7 through 19 branch to appropriate attorney queue (79-91,224)
196	Private case node Branches on value of Atrribute 10 (priority attribute) ATTRIB 10 = 7,3,5 (trial in progress,other court, trial) Branch to node 198 ATTRIB 10 ≠ 7,3,5 (injunction) branch to node 197
197	Private injunction clones node Removes private injunction clones from the system
198	Branches to queue nodes (191-195,221) based on value of Attribute 3 ATTRIB 3 = 1 branch to queue node 191 ATTRIB 3 = 2 branch to queue node 192 ATTRIB 3 = 3 branch to queue node 193 ATTRIB 3 = 4 branch to queue node 194 ATTRIB 3 = 5 branch to queue node 195 ATTRIB 3 = 6 branch to queue node 221
191	Queue node for private case clones with Attribute 3 (judge number) = 1
192	Queue node for private case clones with Attribute 3 (judge number) = 2
193	Queue node for private case clones with Attribute 3 (judge number) = 3
194	Queue node for private case clones with Attribute 3 (judge number) = 4
195	Queue node for private case clones with Attribute 3 (judge number) = 5
221	Queue node for private case clones with Attribute 3 (judge number) = 6
74	Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 3 (judge number) = 1 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute) (see Table, Case Attributes)

75 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 3 (judge number) = 2 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

NODE

- 77 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 3 (judge number) = 4 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 78 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 3 (judge number) = 5 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 79 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 3 (judge number) = 6 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 80 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 7 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 81 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 8 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 82 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 9 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 83 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 10 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 84 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 11 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).
- 85 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 12 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

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Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 13 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

87 Queue mode for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 14 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

88 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 15 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

89 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 16 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

90 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 17 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

91 Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 18 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

Queue node for all cases at a courtroom stage (injunction, other court, bench trial, jury trial) with Attribute 2 (attorney number) = 19 B/10: cases ordered within queue based on biggest value of Attribute 10 (priority attribute).

1 Allocate node for resource 1 (judge 1), indicates 1 of that resource to be allocated

2 Allocate node for resource 2 (judge 2), indicates 1 of that resource to be allocated

Allocate node for resource 3 (judge 3), indicates 1 of that resource to be allocated

Allocate node for resource 4 (judge 4), indicates 1 of that resource to be allocated

Allocate node for resource 5 (judge 5), indicates 1 of that resource to be allocated

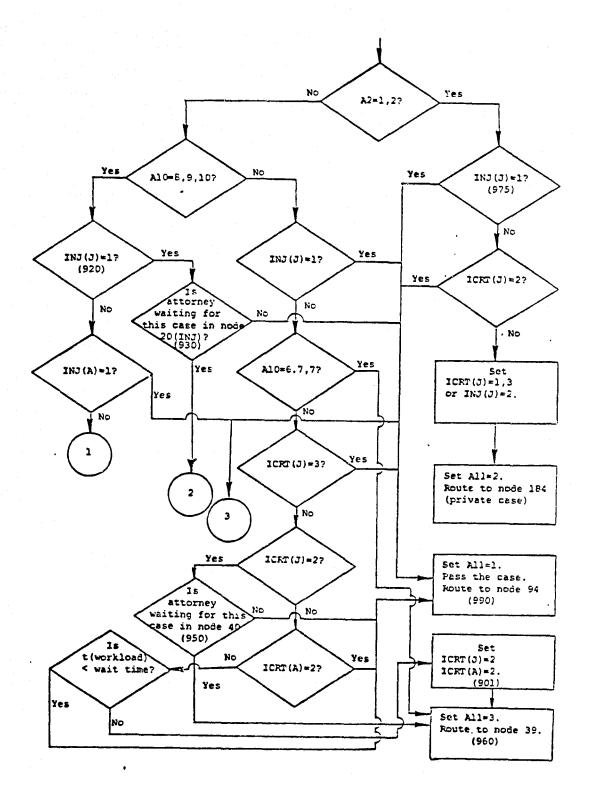
6 Allocate node for resource 6 (judge 6), indicates 1 of that resource to be allocated

Allocate node for resource 7 (attorney 1), indicates 1 of that resource to be allocated

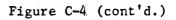
NODE	
8	Allocate node for resource 8 (attorney 2), indicates 1 of that resource to be allocated
9	Allocate node for resource 9 (attorney 3), indicates 1 of that resource to be allocated
10	Allocate node for resource 10 (attorney 4), indicates 1 of that resource to be allocated
11	Allocate node for resource 11 (attorney 5), indicates 1 of that resource to be allocated
12	Allocate node for resource 12 (attorney 6), indicates 1 of that resource to be allocated
13	Allocate node for resource 13 (attorney 7), indicates 1 of that resource to be allocated
14	Allocate node for resource 14 (attorney 8), indicates 1 of that resource to be allocated
15	Allocate node for resource 15 (attorney 9), indicates 1 of that resource to be allocated
16	Allocate node for resource 16 (attorney 10), indicates 1 of that resource to be allocated
17	Allocate node for resource 17 (attorney 11), indicates 1 of that resource to be allocated
18	Allocate node for resource 18 (attorney 12), indicates 1 of that resource to be allocated
225	Allocate node for resource 19 (attorney 13), indicates 1 of that resource to be allocated
92	Judge route node 11 UF 9: User Function 9 follows judge route node logic (see chart) to place value in Attribute 11 (routing attribute): ATTRIB 11 = 1 route judge resource and case to node 94 (pass the case)
	ATTRIB 11 = 2 route judge resource and case to node 184 (private case)
	ATTRIB 11 = 3 route resource and case to node 39 (trial or other court judge hold queue) ATTRIB 11 = 4 route judge resource and case to node 19 (injunction judge hold queue)
96	Sends attorney resource and case to node 93

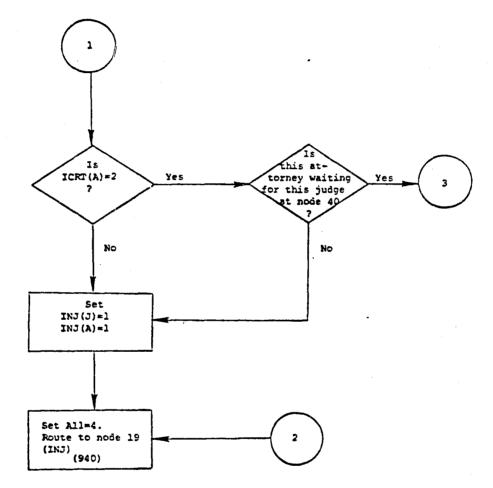
C-23



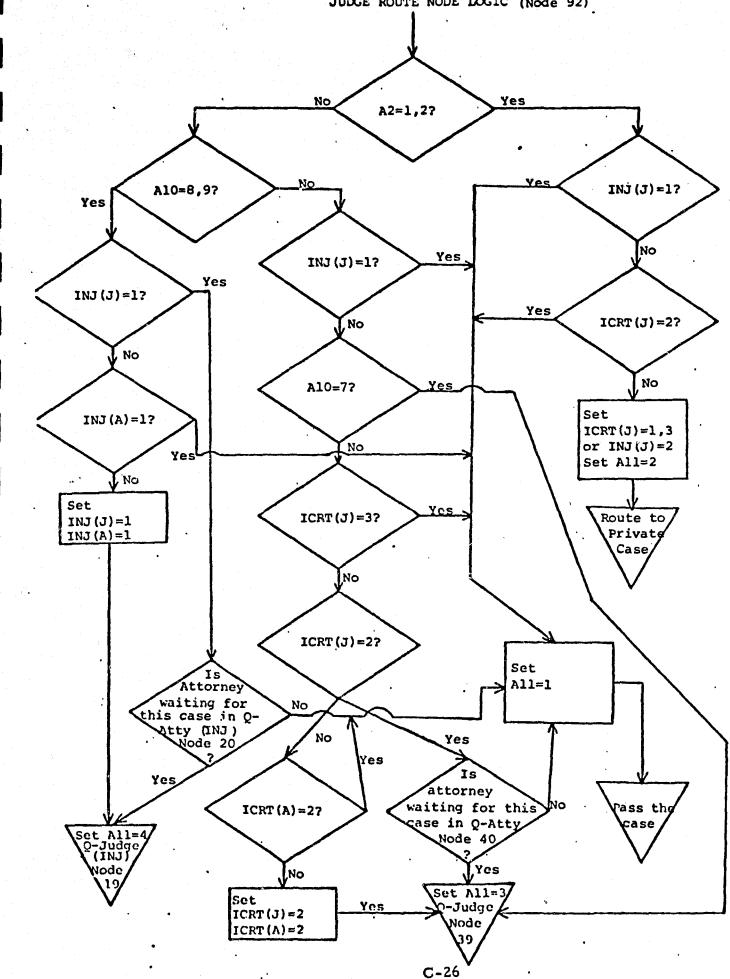


Judge Route Node Logic (UF 9 at Node 92).





JUDGE ROUTE NODE LOGIC (Node 92)



93	Attorney route node 11 UF 10: User Function 10 follows attorney route node logic (see chart) to place value in Attribute 11 (routing attribute): ATTRIB 11 = 1 Route attorney resource and case to node 95 (pass the case) ATTRIB 11 = 3 Route attorney resource and case to node 40 (trial or other court attorney hold queue) ATTRIB 11 = 4 Route attorney resource and case to node 20 (injunction attorney hold queue)
184	Private case node: Branches on value of Attribute 10 (priority attribute) ATTRIB 10 - 8,9 Send judge resource and case to node 101 (injunction or injunction pending) If ATTRIB 10 \neq 8,9 Branch on value of Attribute 3 (judge number) ATTRIB 3 = 1 Send judge resource and case to queue node 185 (private queue for judge 1) ATTRIB 3 = 2 Send judge resource and case to queue node 199 (private queue for judge 2) ATTRIB 3 = 3 Send judge resource and case to queue node 200 (private queue for judge 3) ATTRIB 3 = 4 Send judge resource and case to queue node 201 (private queue for judge 4) ATTRIB 3 = 5 Send judge resource and case to queue node 202 (private queue for judge 5) ATTRIB 3 = 6 Send judge resource and case to queue node 202 (private queue for judge 5)
185	Queue node for judge resource and case with Attribute 3 (judge number) = 1
199	Queue node for judge resource and case with Attribute 3 (judge number) = 2
200	Queue node for judge resource and case with Attribute 3 (judge number) = 3
201	Queue node for judge resource and case with Attribute 3 (judge number) = 4
202	Queue node for judge resource and case with Attribute 3 (judge number) = 5
222	Queue node for judge resource and case with Attribute 3 (judge number) = 6
186	Match node for private case clone from queue node 191 and judge resource and case from queue node 185. Indicates that case and clone are to be matched on value of Attribute 1 (case identifier)
187	Match node for private case clone from queue node 199. Indicates that case and clone are to be matched on value of Attribute 1 (case identifier)

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188 Match node for private case clone from queue node 193 and judge resource and case from queue node 200. Indicates that case and clone are to be matched on value of attribute 1 (case identifier)

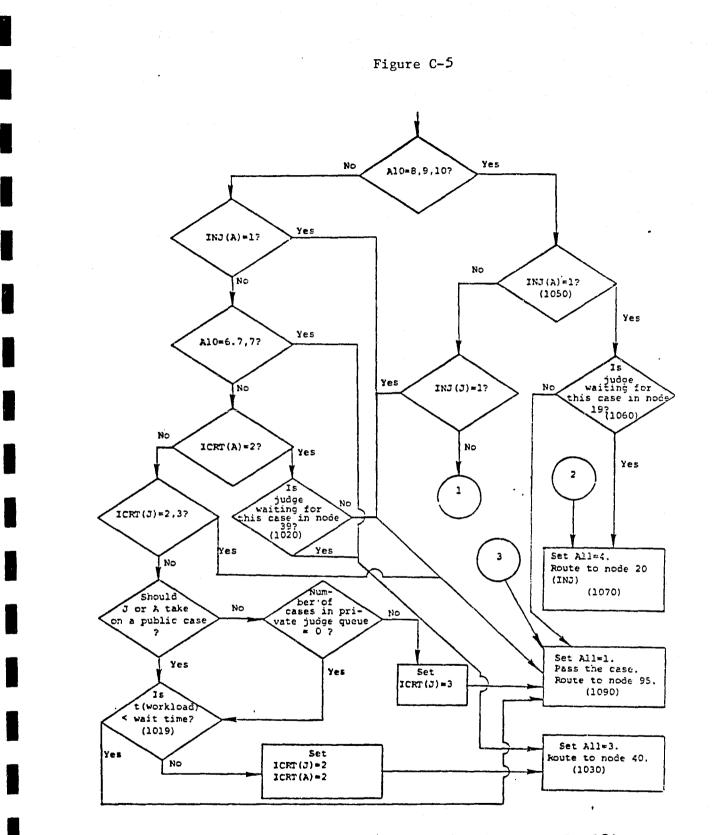
189 Match node for private case clone from queue node 194 and judge resource and case from queue node 201. Indicates that case and clone are to be matched on value of Attribute 1 (case identifier)

NODE

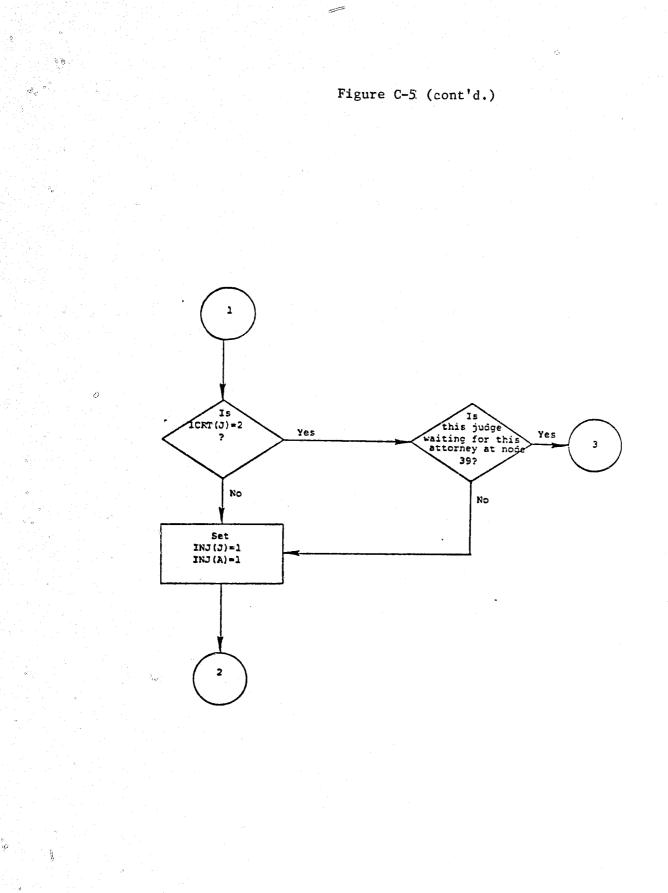
190 Match node for private case clone from queue node 195 and judge resource and case from queue node 202. Indicates that case and clone are to be matched on value of Attribute 1 (case identifier)

223 Match node for private case clone from queue node 222 and judge resource and case from queue node 221. Indicates that case and clone are to be matched on value of Attribute 1 (case identifier)

183 Combines cases and clones that were matched at nodes 186-190, 223. Indicates that 2 transactions (a case and its clone) are required for the first release and each subsequent release of this node, and that the attributes of the case that is released will be those of the case or clone that had the biggest value of Attribute 10 (priority attribute)

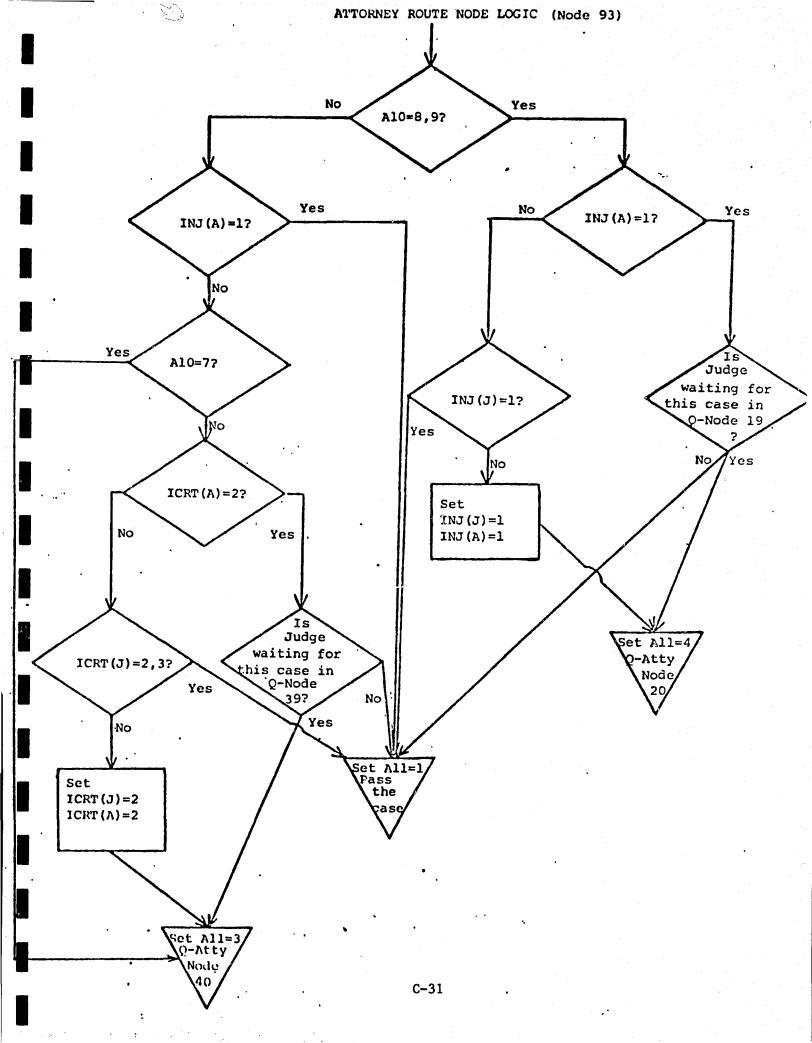






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PRIVATE CASE

 NODE		
		Branches on value of Attribute 10 (priority attribute): ATTRIB 10 = 3 Other courtroom, send to node 102 ATTRIB 10 = 4 Other courtroom pending, send to node 102 ATTRIB 10 = 8 Injunction, send to node 103 ATTRIB 10 = 9 Injunction pending, send to node 103 ATTRIB 10 = 5 Trial, send to node 104 ATTRIB 10 = 6 Trial pending, send to node 104 ATTRIB 10 = 7 Trial in progress, send to node 104
102		Activity 102, 105 UF, 23 User Function 23 samples from time distributions: Card 45: other courtroom time for Federal Question cases Card 54: other courtroom time for Diversity Jurisdiction cases 11 UF 40: User Function 40 collects utilization statistics on judge's busy time
103		Activity 103,106 UF,24 User Function 24 samples from time distributions: Card 42: injunction time for Federal Question cases Card 43: injunction time for Diversity Jurisdiction cases 11 UF 40: User Function 40 collects utilization statistics on judge's busy time
104	•	Activity 104,107 UF,25 User Function 25 samples from time distributions: Card 43: bench trial time for Federal Question cases Card 52: bench trial time for Diversity Jurisdiction cases Card 44: jury trial time for Federal Question cases Card 53: jury trial time for Diversity Jurisdiction cases 11 UF 40: User Function 40 collects utilization statistics on judge's busy time
105		7- CO 1: Attribute 7 (frequency of other courtroom activity) decremented by a constant value of 1 11 UF 41: User Function 41 collects utilization statistics on judge's idle time 11 CO 6: ATTRIB 11 (routing attribute) set to constant value of 6
106		5- CO 1: Attribute 5 (frequency of injunction) decremented by a constant value of 1 11 UF 41: User Function 41 collects utilization statistics on judge's idle time
108		<pre>11 UF 14: Set INJ(J) = 0 (injunction signal of judge = no injunction) If INJ(J) = 2 (injunction signal of judge was = private injunction)</pre>

107 6- CO 1: Attribute 6 (trial attribute) decremented by a constant value of 1 Activity 107,110: ATTRIB 6 (trial attribute) = 1000 bench trial complete Activity 107,110: ATTRIB 6 (trial attribute) = 2000 jury trial complete 11 UF 41: User Function 41 collects utilization statistics on judge's idle time 110 11 UF 15: set ICRT(J) = 0 (courtroom signal of judge = no court activity 11 CO 2: Attribute 11 (routing attribute) = 2 6 CO 0: Attribute 6 (trial attribute) set to a constant value of 0 (trial completed) Case sent to both node 50 and node 156 109 10 CO 7: Attribute 10 (priority attribute) set to a constant value of 7 (trial in progress) 11 CO 1: Attribute 11 (routing attribute) set to a constant value of 1

Case sent to both node 51 and node 156

PASSED CASE (JUDGE)

NODE

94

146

10 UF 11 User Function 11 assigns a higher value to Attribute 10 (priority attribute) If ATTRIB 10 was = 8,9set ATTRIB 10 = 9If ATTRIB 10 was = 7 set ATTRIB 10 = 7If ATTRIB 10 was = 6,5 set ATTRIB 10 = 6, 6If ATTRIB 10 was = 6,3set ATTRIB 10 = 6,4If ATTRIB 10 was = 3,4set ATTRIB 10 = 4Free node for Judge resources Indicates that 1 resource of Attribute 3 (judge number) is to be freed, first to return to appropriate allocate node 1-6 (courtroom), then to appropriate allocate node 21-26 (noncourtroom) Branches on value of Attribute 3 (judge number): ATTRIB 3 = 1 send case to queue node 74 (CO,d) adds delay of constant value, d, to case time ATTRIB 3 = 2 send case to queue node 75 (CO,d) adds delay of constant value, d, to case time ATTRIB 3 = 3 send case to queue node 76 (CO,d) adds delay of constant value, d, to case time ATTRIB 3 = 4 send case to queue node 77 (CO,d) adds delay of constant value, d, to case time ATTRIB 3 = 5 send case to queue node 78 (CO,d) adds delay of constant value, d, to case time ATTRIB 3 = 6 send case to queue node 79 (CO,d) adds delay of constant value, d, to case time

1977

95	10 UF 12 User Function 12 assigns a higher value to Attribute 10 (priority attribute) If ATTRIB 10 was = 8.9 set ATTRIB 10 = 9 If ATTRIB 10 was = 7 set ATTRIB 10 = 7 If ATTRIB 10 was = 6.5 set ATTRIB 10 = 6.6
	If ATTRIB 10 was = 6.3 set ATTRIB 10 = 6.4 If ATTRIB 10 was = $5,6$ set ATTRIB 10 = 6 If ATTRIB 10 was = $3,4$ set ATTRIB 10 = 4
147	Free node for attorney resources Indicates that 1 resource of Attribute 2 (attorney number) is to be freed, first to return to appropriate allocate node 7-18,225 then to appropriate allocate node 27-38 (noncourtroom) Branches on value of Attribute 2 (attorney number): ATTRIB 2 = 7 send case to queue node 80 (CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 8 send case to queue node 81
	ATTRIB 2 = 8 send case to queue node of (CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 9 send case to queue node 82 (CO,d) adds delay of constant value, d, to case time
	ATTRIB 2 = 10 send case to queue node 83 (CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 11 send case to queue node 84
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 12 send case to queue node 85
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 13 send case to queue node 86
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 14 send case to queue node 87
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 15 send case to queue node 88
* * *	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 16 send case to queue node 89
	(CC,d) adds delay of constant value, d, to case time ATTRIB 2 = 17 send case to queue node 90
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 18 send case to queue node 91
	(CO,d) adds delay of constant value, d, to case time ATTRIB 2 = 19 send case to queue node 224
	(CO,d) adds delay of constant value, d, to case time

INJUNCTION

NODE

Judge injunction hold queue node

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19

Attorney injunction hold queue node

97

Match node for attorney and judge resources with cases Indicates resource and case to be matched on value of Attribute 1 (case identifier)

98

13

Combines case judges and attorneys that were matched at node 97 Indicates that 2 transactions (judge and attorney) are required for the first release of this node, and that the attributes of the case that is released will be there of the transaction that had the biggest value of Attribute 10 (priority attribute) 11 UF 36: User Function 36 collects utilization statistics on judge and attorney idle time Activity 98,99 UF,22 User Function 22 samples from time distributions: Card 14: injunction time for criminal cases Card 30: injunction time for civil/U.S. cases

99

5 UF 44: User Function 44 decrements ATTRIB 5 (frequency of injunction) by 1, unless a criminal case 11 UF 13: User Function 13 sets: INJ(J) = 0 (injunction signal of judge = no injunction) INJ(A) = 0 (injunction signal of attorney = no injunction) 11 UF 37: User Function 37 collects utilization statistics on judge and attorney idle time

100

Free node for judge resources Indicates that 1 resource of Attribute 3 (judge number) is to be freed, to return to appropriate allocate node 1-6 (courtroom).

PUBLIC TRIAL AND OTHER COURT

NODE

40 Attorney trial and other court hold queue node

- 113 Match node for attorney and judge resources with cases. Indicates resource and case to be matched on value of Attribute 1 (case identifier)
- 114

115

11 UF 16: User Function 16 sets: ICRT(J) = 0 (courtroom signal of judge = no courtroom appearance) ICRT(A) = 0 (courtroom signal of attorney = no courtroom appearance) If ATTRIB 10 = 3,4,6.3,6.4 (priority attribute = other court or other court pending) Activity 114,115 UF,26 User Function 26 samples from time distributions: Card 15: bench trial time for criminal cases Card 31: bench trial time for civil/U.S. cases Card 16: jury trial time for civil/U.S. cases Card 32: jury trial time for civil/U.S. cases Card 17-20: other courtroom time for criminal cases Card 33: other courtroom time for civil/U.S. cases 11 UF 36: User Function 36 collects utilization statistics on judge and attorney busy time

11 UF 17: User Function 17 decrements Attribute 6 (trial attribute) by a value of 1 if Attribute 10 (priority attribute) = 5,6,7 (trial, trial pending, or trial in progress) Branches on value of Attribute 10 (priority attribute) ATTRIB 10 = 3,4 (other courtroom or other courtroom pending), send to node 116 ATTRIB 10 \neq 3,4 Branch on value of Attribute 6 (trial attribute) ATTRIB 6 = 1000 Bench trial complete, send to node 118 ATTRIB 6 = 2000 Jury trial complete, send to node 118 ATTRIB 6 \neq 1000, 2000 Trial in progress, send to node 117 11 UF 37: User Function 37 collects utilization statistics on judge and attorney idle time

7 UF 45: User Function 45 decrements ATTRIB 7 (frequency of other court) decremented by 1 unless a criminal case 11 CO 3: Attribute 11 (routing attribute) set to a constant value of 3 Case and resources sent to node 156 Case also sent to node 50

118

116

11 UF 18: User Function 18 sets: ICRT(J) = 0 (judge courtroom signal = no courtroom appearance) ICRT(A) = 0 (attorney courtroom signal = no courtroom appearance) 11 CO 5: Attribute 11 (routing attribute) set to a constant value of 5 6 UF 46: User Function 46 sets ATTRIB 6 (trial attribute) to a value of 0, unless a criminal case Case and resources sent to node 156 Case also sent to node 50

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10 UF 56: User Function 56 sets queue ranking for a trial in
progress
11 CO 4: Attribute 11 (routing attribute) set to constant value
of 4
Case and resources sent to node 156
Case also sent to node 51

FREEING OF RESOURCES

NODE

156	11 UF 19: User Function 19 sets: ATTRIB 11 = - ATTRIB 11 (routing attribute) If $INJ(J) = 1$ (injunction pending)
	Branches on value of Attribute 11:
	ATTRIB 11 < 0 (injunction): send to node 157
	ATTRIB 11 = 2 (private case complete): send to node 158
	ATTRIB 11 = 5 (public trial complete): send to node 158
	ATTRIB 11 < 5 (other court or public/private trial in progress): send to node 159

158 Branch on probability of internal delay for judge p (.0001) send to node 160 p (.9999) send to node 148

160 11 CO 0: Attribute 11 (routing attribute) set to constant value of 0 Activity 160,157 UF, 59 User Function 59 sets duration of internal delay for judge (all cases from node 160 take this branch) Activity 160,163 ATTRIB 2 > 7 cases with Attribute 2 > 7 (attorney numbers greater than or equal to 7) (public cases) sent to node 163

- 148 Il UF 64: User Function 64 frees judge according to allocation table Branches on value of ATTRIB 11 = 1,5 send to node 157 Branches on value of ATTRIB 11 = -1, -5 send to node 159 11 UF 66: User Function 66 frees judge according to resource allocation table Branches on value of ATTRIB 11 = 1,3 send to node 157 Branches on value of ATTRIB 11 = -1, -3 send to node 159
- 157 Free node for judge resources Indicates that 1 resource of Attribute 3 (judge number) is to be freed. Case sent to node 111
- 159 Branches on value of Attribute 3 (judge number) ATTRIB 3 = 1 Resources with cases with judge number 1 ATTRIB 3 = 2 Resources with cases with judge number 2 ATTRIB 3 = 3 Resources with cases with judge number 3 ATTRIB 3 = 4 Resources with cases with judge number 4 ATTRIB 3 = 5 Resources with cases with judge number 5 ATTRIB 3 = 6 Resources with cases with judge number 6
- 119 Free node for judge resource 1 Indicates 1 resource of that number to be freed, first to allocate node 2 (noncourtroom), then to allocate node 1 (courtroom)
- 120 Free node for judge resource 2 Indicates 1 resource of that number to be freed, first to allocate node 22 (noncourtroom), then to allocate node 2 (courtroom)

 NODE	
121	Free node for judge resource 3 Indicates 1 resource of that number to be freed, first to allocate node 23 (noncourtroom), then to allocate node 3 (courtroom)
122	Free node for judge resource 4 Indicates 1 resource of that number to be freed, first to allocate node 24 (noncourtroom), then to allocate node 4 (courtroom)
149	11 UF 66: User Function 66 frees judge according to resource allocation table Branches of value of ATTRIB 11 = 1,3 send to node 157 ATTRIB 11 = -1, -3 send to node 159
123	Free node for judge resource 5 Indicates 1 resource of that number to be freed, first to allocate node 24 (noncourtroom), then to allocate node 5 (courtroom)
231	Free node for judge resource 6 Indicates 1 resource of that number to be freed, first to allocate node 26 (noncourtroom), then to allocate node 6 (courtroom)
111	Branches on value of Attribute 11 (routing attribute) ATTRIB 11 = -6 send to node 42 ATTRIB 11 = -2 send to node 112 ATTRIB 11 = -1 send to node 112 ATTRIB 11 = 0 send to node 112 ATTRIB 11 = 1 send to node 112 ATTRIB 11 = 2 send to node 112 ATTRIB 11 = 2 send to node 112 ATTRIB 11 = 2 send to node 112
112	Node to sink private case clones used to free judge resources
163	11 UF 20: User Function 20 sets Attribute 3 (used as routing attribute at this node) based on value of Attribute 11: ATTRIB 11 - 5,0,5 set ATTRIB 3 = 6 (public trial complete) Sets INJ(A) = 1 (attorney injunction signal = injunction pending) if INJ(J) = 1 (if judge injunction signal = injunction pending) Branching on: ATTRIB 11 = 1 (routing attribute = injunction) send to node 181 ATTRIB 3 = 7 (routing attribute = public trial complete) send to node 181 ATTRIB 11 \neq 1, ATTRIB 3 \neq 7 (other court or continued public trial) send to node 229)
229	11 UF 67 User Function 67 frees attorney according to allocation table. Branches on value of ATTRIB 11 = 1 send to node 181 ATTRIB II = 0 send to node 167
164	Branch on probability of internal delay for attorney p0001 send to node 181 p9999 send to node 228 Activity 164,181: UF 60 sets attorney internal delay time
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NODE	
228	11 UF65 User Function 65 frees the attorney following end of trial according to allocation table. Branches on value of ATTRIB 11 = 1 send to node 181 ATTRIB 11 = 0 send to node 167
181	Free node for attorney resources Indicates that 1 resource of Attribute 2 (attorney number) is to be freed.
167	Branches on value of Attribute 2 (attorney number) ATTRIB 2 = 79 send to node 168 ATTRIB 2 = 7 send to node 169 ATTRIB 2 = 8 send to node 170 ATTRIB 2 = 9 send to node 171 ATTRIB 2 = 10 send to node 172 ATTRIB 2 = 11 send to node 173 ATTRIB 2 = 12 send to node 174 ATTRIB 2 = 13 send to node 175 ATTRIB 2 = 14 send to node 176 ATTRIB 2 = 15 send to node 177 ATTRIB 2 = 16 send to node 179 ATTRIB 2 = 17 send to node 179 ATTRIB 2 = 18 send to node 180
168	Free node for attorney resource 19 Indicates 1 resource of that number to be freed, first to allocate node 227 (noncourtroom), then to allocate node 225 (courtroom)
169	Free node for attorney resource 7 Indicates 1 resource of that number to be freed, first to allocate node 27 (noncourtroom), then to allocate node 7 (courtroom)
170	Free node for attorney resource 8 Indicates 1 resource of that number to be freed, first to allocate node 28 (noncourtroom), then to allocate node 8 (courtroom)
171	Free node for attorney resource 9 Indicates 1 resource of that number to be freed, first to allocate node 29 (noncourtroom), then to allocate node 9 (courtroom)
172	Free node for attorney resource 10 Indicates 1 resource of that number to be freed, first to allocate node 30 (noncourtroom), then to allocate node 10 (courtroom)
173	Free node for attorney resource 11 Indicates 1 resource of that number to be freed, first to allocate node 31 (noncourtroom), then to allocate node 11 (courtroom)
174	Free node for attorney resource 12 Indicates 1 resource of that number to be freed, first to allocate node 31 (noncourtroom), then to allocate node 11 (courtroom)

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Free node for attorney resource 13 Indicates 1 resource of that number to be freed, first to allocate node 33 (noncourtroom), then to allocate node 13 (courtroom)
Free node for attorney resource 14 Indicates 1 resource of that number to be freed, first to allocate node 34 (noncourtroom), then to allocate node 14 (courtroom)
Free node for attorney resource 15 Indicates 1 resource of that number to be freed, first to allocate node 35 (noncourtroom), then to allocate node 15 (courtroom)
Free node for attorney resource 16 Indicates 1 resource of that number to be freed, first to allocate node 36 (noncourtroom), then to allocate node 16 (courtroom)
Free node for attorney resource 17 Indicates 1 resource of that number to be freed, first to allocate node 37 (noncourtroom), then to allocate node 17 (courtroom)

NONE

NONCOURTROOM

NODE

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68	Judge noncourtroom branching node 10 UF 54
	Branches on value of Attribute 3 (judge number)
	ATTRIB 3 = 1send to queue node 124ATTRIB 3 = 2send to queue node 125
	4
	ATTRIB 3 = 4 send to queue node 127
	ATTRIB 3 = 5 send to queue node 128
	ATTRIB 3 = 6 send to queue node 129
69	Attorney noncourtroom branching node
0,	10 CO 1: Assigns a constant value of 2 to Attribute 10
	(priority attribute)
	ATTRIB $2 = 7$ send to queue node 130
	ATTRIB 2 = 8 send to queue node 131
	ATTRIB 2 = 9 send to queue node 132
	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	ATTRIB 2 = 10Send to queue node 133ATTRIB 2 = 11send to queue node 134
	ATTRIB 2 = 12send to queue node 135
	ATTRIB 2 = 12 send to queue node 135 ATTRIB 2 = 13 send to queue node 136
	ATTRIB 2 = 13Send to queue node 130ATTRIB 2 = 14send to queue node 137
	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	ATTRIB 2 = 17send to queue node 139 $ATTRIB 2 = 17$ send to queue node 140
	$\begin{array}{cccc} \text{ATTRIB 2 = 17} & \text{send to queue node 140} \\ \text{ATTRIB 2 = 18} & \text{send to queue node 141} \end{array}$
	ATTRIB 2 = 19 send to queue node 226
•	ATTRIB 2 - 19 Sena to quede node 220
124	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 1
125	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 2
126	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 3
127	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 4
128	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 5
129	Queue node for all cases at noncourtroom stage with Attribute 3
	(judge number) = 6
130	Queue node for all cases at noncourtroom stage with Attribute 2
	(attorney number) = 7

NODE	
131	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 8
132	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 9
133	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 10
134	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 11
135	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 12
136	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 13
137	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 14
138	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 15
139	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 16
140	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 17
141	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 18
226	Queue node for all cases at noncourtroom stage with Attribute 2 (attorney number) = 19
21	Allocate node for resource 1 (judge 1) Indicates 1 of that resource to be allocated
22	Allocate node for resource 2 (judge 2) Indicates 1 of that resource to be allocated
23	Allocate node for resource 3 (judge 3) Indicates 1 of that resource to be allocated
24	Allocate node for resource 4 (judge 4) Indicates 1 of that resource to be allocated
25	Allocate node for resource 5 (judge 5) Indicates 1 of that resource to be allocated

26	Allocate node for resource 6 (judge 6) Indicates 1 of that resource to be allocated
27	Allocate node for resource 7 (attorney 1) Indicates 1 of that resource to be allocated
28	Allocate node for resource 8 (attorney 2) Indicates 1 of that resource to be allocated
29	Allocate node for resource 9 (attorney 3) Indicates 1 of that resource to be allocated
30	Allocate node for resource 10 (attorney 4) Indicates 1 of that resource to be allocated
31	Allocate node for resource 11 (attorney 5) Indicates 1 of that resource to be allocated
32	Allocate node for resource ll (attorney 6) Indicates l of that resource to be allocated
33	Allocate node for resource 12 (attorney 7) Indicates 1 of that resource to be allocated
34	Allocate node for resource 13 (attorney 8) Indicates 1 of that resource to be allocated
35	Allocate node for resource 14 (attorney 9) Indicates 1 of that resource to be allocated
36	Allocate node for resource 15 (attorney 10) Indicates 1 of that resource to be allocated
37	Allocate node for resource 16 (attorney 11) Indicates 1 of that resource to be allocated
38	Allocate node for resource 17 (attorney 12) Indicates 1 of that resource to be allocated
227	Allocate node for resource 18 (attorney 13) Indicates 1 of that resource to be allocated
142	Activity 142,144 UF,27 User Function 27 sets noncourtroom judge time by sampling from distributions: Card 21: noncourtroom judge time for Criminal cases Card 34: noncourtroom judge time for Civil/U.S. cases Card 46: noncourtroom judge time for Federal Question cases Card 55: noncourtroom judge time for Diversity Jurisdiction cases 11 UF 40 User Function 40 collects utlization statistics on judge busy time

NODE

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8 UF 47 User Function 47 decrements ATTRIB 8 by 1, unless a criminal case 11 UF 41 User Function 41 collects utilization statistics or judge idle time 11 UF 62 User Function 62 frees judge according to allocation table Branches on value of ATTRIB 11 = 1,0

Free node for judge resources Indicates 1 resource of Attribute 3 (judge number) is to be freed

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Activity 143,145 UF,28 User Function 28 sets noncourtroom attorney time by sampling from distributions: Parameter Set 58: noncourtroom attorney time for Criminal cases Parameter Set 59: noncourtroom attorney time for Civil/U.S. cases 11 UF 38: User Function 38 collects utilization statistics on attorney busy time

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9 UF 48 User Function 48 decrements ATTRIB 8 by 1, unless a criminal case 11 UF 39 User Function 39 collects utilization statistics on attorney idle time 11 UF 63 User Function 63 frees the attorney according to allocation table

166

Free node for attorney resources Indicates resource of attribute 2 (attorney number) is to be freed

The structure of attributes, arrays, and parameter sets can be more clearly presented in tabular form. The following pages, originally prepared by Dr. Ken Musselman and Mr. Robert Hannan, of Pritsker and Associates, Inc., detail the format of the attributes, arrays, and parameter sets used in the Diversity Jurisdiction resource model.

CASE ATTRIBUTES

Each case in this model is uniquely identified by a set of attributes. These attributes are used to distinguish the case from other cases, determine its direction of flow, and assist in data collection and analysis. A description of these attributes is presented below. The functions performed by each attribute are listed in capital letters. A message's location in the network determines which of the attribute's functions is currently being performed.

Attribute Number	Description
1	A. Generation counter B. Match attribute (Case Identifier)
2	Attorney number 1 Private case (Federal Question) 2 Private case (Diversity Jurisdiction) 7-19 Public case (Criminal or Civil/U.S.)
3	 A. Judge number 0 No judge involvement 1-6 Judge involvement B. Routing attribute at node 163 to free attorney
4	 A. Frequency of external delay B. Negative value of the time when a case begins "STT" day clock for speedy trials
5	Frequency of an injunction
6	 A. Trial index 0 No trial 1ABC Bench trial with ABC episodes 2XYZ Jury trial with XYZ episodes B. Last stage completed in Criminal case flow
7	Frequency of other courtroom activity

Attribute Number	Description
8	Frequency of noncourtroom activity (judge)
9	Frequency of noncourtroom activity (attorney)
HIGHER ORDER	Queue ranking 10 Speedy case - injunction 9 Injunction pending 8 Injunction 7 Trial in progress 6.7 Speedy case - trial in progress 6.6 Speedy case - trial pending 6.5 Speedy case - trial 6.4 Speedy case - other courtroom pending 6.3 Speedy case - other courtroom 6.2 Speedy case - noncourtroom (judge) 6.1 Speedy case - noncourtroom (attorney) 6.05 Speedy case - external delay 6 Trial pending 5 Trial 4 Other courtroom pending 3 Other courtroom 2 Noncourtroom (judge) 1 Noncourtroom (attorney) 0 External delay
11	A. Routing attribute

B. Dummy attribute

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PARAMETER SET DESCRIPTIONS

This section describes the function of each parameter set as well as its distribution type.

DESCRIPTION

PARAMETER SET NUMBER

Interarrival Times	
(Exponential Distributions)	
Criminal case	1
Civil/U.S. case	2
Federal Question case	3
Diversity Jurisdiction case	4
Judge/Attorney Assignment	
(At Time Zero)	
Attorney Number, Criminal	70
Attorney Number, Civil/U.S.	71
Judge Number	72

DESCRIPTION		PARAMETER	SET NUMBER
Activity Type	Case Type Criminal	Episodes*	Duration*
Injunctive Action			38
Trial Bench Jury		28 32	48 49
Other Courtroom Grand jury Indictment Arraignment Rearraignment Hearings Sentencing			52 16 63 6 5
Noncourtroom - Judge Pre-sentencing investigation			56
Noncourtroom - Attorney Investigation Information Initial Case Prepartion Plea Bargaining Negotiations Rearraignment Hearings Final Case Preparation Preparation for Sentencing	·		58 20 65 66 68 69
External Delay			36

*Triangular Distributions

DESCRIPTION		PARAMETER	
Activity Type	Case Type	Episodes*	Duration*
	Civil/U.S.		
Injunctive Action		22	39
Trial			
Bench	•	29	50
Jury		33	51
Other Courtroom		23	53
Noncourtroom - Judge		24	57
Noncourtroom - Attorney			59
Judge Involvement		25	59
No Judge Involvement		64	· ·
No budge involvement		04	
External Delay			37
Judge Involvement		21	
No Judge Involvement		62	
	Federal		
Injunctive Action	Question	8	42
-			
Trial			
Bench		26	44
Jury		30	45
Other Courtroom		9	40
Noncourtroom - Judge		10	54
External Delay			34
Judge Involvement		7	
No Judge Involvement		61	
•			
	Diversity Jurisdiction		
Injunctive Action	Jurisalction	12	43
Trial			• •
Bench	•	27	46
Jury		31	47
Other Courtroom	•	13	41
Noncourtroom - Judge		14	55
External Delay			35
Judge Involvement		67	
No Judge Involvement		50	۰ •

*Triangular Distributions

USER-WRITTEN SUBPROGRAMS

In the Justice Resource Model it was necessary to supplement the network with FORTRAN support subprograms. These subprograms, which include UI, UF, UO, FUS, NSTG, DVRSN, NEXTA, NACT, and CHNG, are designed to accommodate nonstandard routing logic as well as user-specified input and output. The function of each of these subprograms is outlined below.

Subroutine UI

Before each analysis run, the Q-GERT Analysis Program calls subroutine UI to allow the user to initialize userdefined program variables, output user specified information, and create special initial conditions. Specific to this model, subroutine UI:

- Reads user input specifications
- Resets specific network parameters
- G Echos user input specifications
- Changes values of those parameter sets sampling from a triangular distribution

Function UF

The function subprogram UF(N) contains FORTRAN programming inserts that are required to model special features of the Justice Resource Model. It is called by the Q-GERT Analysis Program each time function type UF is encountered. The argument N is the UF number prescribed by the modeler to differentiate from among the various calls to UF. A description of the programming code associated with each UF number is given below.

UF Numbe	Description
1	UF = attorney number (Criminal).
2	UF = attorney number (Civil/U.S.).
3	UF = judge number.
Judge Involvement	<pre>UF = frequency of external delay, A4. Also set are: A5, frequency of injunction (given there is an injunction), A7, frequency of other courtroom activity (≥ 1), A8, frequency of noncourtroom activity (judge), and A9, frequency of noncourtroom activity (attorney).</pre>
5	Return if this is a Criminal case. If not, $UF = 1$, if any of A4, A5, A6, A7, A8, or A9 > 0 (case has not been completed). $UF = 0$, otherwise (case has been completed).
6	UF routes case into a randomly selected stage. If this is a Criminal case, the next stage is selected based on the flowchart of a Criminal case.
7	UF = number of trial (bench) episodes.
8	UF = number of trial (jury) episodes.
9	UF routes case, with judge, based on judge route node logic.
10	UF routes case, with attorney, based on attorney route node logic.
11	UF increases priority of passed over case if $A10 = 3, 5, 6.3, 6.5, or 8.$
12	Same as UF 11.

UF Number	Description
13	UF sets $INJ(J) = 0$ and $INJ(A) = 0$.
14	UF sets $INJ(J) = 0$, if $INJ(J) = 2$. (If $INJ(J) = 1$, return.)
15	UF sets $ICRT(J) = 0$.
16	UF sets $ICRT(J) = 0$ and $ICRT(A) = 0$, if $A10 = 3$, 4, 6.3, or 6.4.
17	UF sets A6 = A6 - 1 if A10 = 5, 6, 6.5, 6.6, 6.7, or 7.
18	UF sets $ICRT(J) = 0$ and $ICRT(A) = 0$.
19	UF routes case for freeing the judge based on injunction status and case type.
20	UF routes case for freeing the attorney based on injunction status and case type.
21	UF sets duration of external delay.
22	UF sets duration of injunction (Criminal or Civil/ U.S.).
23	UF sets duration of a private other courtroom service (Federal Question or Diversity Jurisdic- tion).
24	UF sets duration of a private injunction (Federal Question or Diversity Jurisdiction).
25	UF sets the duration of a private trial (bench or jury) (Federal Question of Diversity Juris- diction).
26	UF sets the duration of a trial (bench or jury) or an other courtroom service (Criminal or Civil/ U.S.).
27	UF sets the duration of the judge's noncourtroom service.
28	UF sets the duration of the attorney's noncourt- room service.
29	UF sets trial/nontrial routing attribute, All.

UF Number		Description		
	30	UF sets trial bench/jury routing attribute, All.		
No Judge Involvement	31	UF sets frequency of external delay, A4 (> 1) for Diversity Jurisdiction case with no judge. Also, frequencies represented by A3, A5, A6, A7, A8, and A9 are set = 0.		
	32	UF sets frequency of external delay, A4 (\geq 1), for Federal Question case with no judge. Also, fre- quencies represented by A3, A5, A6, A7, A8, and A9 are set = 0.		
	33	UF sets frequency of external delay, A4 (> 1) for Civil/U.S. case with no judge. Also, frequencies represented by A3, A5, A6, A7, and A8 are set = 0, and A9 is randomly set to be > 0.		
	34	UF = 0, if $A4 = 0$ or if it is a Criminal case. Otherwise, UF = 1.		
•	35	UF assigns a unique number to each transaction (beginning with 1).		
	36	UF collects utilization statistics on both the judge and attorney (busy)		
	37	UF collects utilization statistics on both the judge and attorney (idle).		
	38	UF collects utilization statistics on just the attorney (busy).		
	39	UF collects utilization statistics on just the attorney (idle).		
	40	UF collects utilization statistics on just the judge (busy).		
	41	UF collects utilization statistics on just the judge (idle).		
	42	UF clears user statistics array.		
	43	UF decrements A4 by 1, unless it is a Criminal case.		
·	44	UF decrements A5 by 1, unless it is a Criminal case.		

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UF Number	Description		
45	UF decrements A7 by 1, unless it is a Criminal case.		
46	UF sets A6 to zero, unless it is a Criminal case, in which case A6 is set equal to itself.		
47	UF decrements A8 by 1, unless it is a Criminal case.		
48	UF decrements A9 by 1, unless it is a Criminal case.		
49	With a given probability for each case type (not including Criminal), UF routes the case to external delay.		
50	UF sets the queue ranking for external delay.		
51	UF sets the queue ranking for an injunction.		
52	UF sets the queue ranking for other courtroom.		
53	UF sets the queue ranking a trial.		
54	UF sets the queue ranking for noncourtroom (J).		
55	UF sets the queue ranking for noncourtroom (A).		
56	UF sets the queue ranking for a trial in progress.		
57	UF tests whether or not this is the beginning of a speedy trial. If so, the time since arraign- ment is tested against the speedy trial time threshold. UF = 1.0 if within time limit; other- wise, UF = 0.0.		
58	UF initiates intercurrent changes, if any one threshold is passed.		
59	UF sets ST(I) according to judge's internal delay.		
60	UF sets ST(I) according to attorney's internal delay.		
61	NA		
62	UF frees the judge following a noncourtroom activ- ity according to the resource allocation table,		
63	UF frees the attorney following a noncourtroom activity according to the resource allocation table.		

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UF Number	Description
64	UF frees the judge following an end of trial activity according to the resource allocation table.
65	UF frees the attorney following an end of trial activity according to the resource allocation table.
66	UF frees the judge following a trial episode or other courtroom activity according to the resource allocation table.
67	UF frees the attorney following a trial episode or other courtroom activity according to the resource allocation table.

Subroutine UO

After each analysis run, the Q-GERT Analysis Program calls subroutine UO to collect, print and reinitialize (for the next run) user-collected statistics.

Subroutine FUS

At the end of the simulation, the Q-GERT Analysis Program calls subroutine FUS to calculate and print pertinent userdefined statistics.

Function NSTG

This routine selects one of the possible branches following a decision point in the Criminal case structure.

Subroutine DVRSN

This routine determines the outcome of a diversion for which there are three possibilities: the selection of one of two possible sinks (which represents a successful diversion) or the selection of an unsuccessful diversion (which results in the eventual return to the point where the diversion was initiated in the Criminal case flow).

Function NEXTA

This routine selects the next stage for a case in the Criminal case structure. The stage selected by this routine is either a Criminal case sink or a Criminal activity.

Function NACT

This routine handles three functions in the Criminal case structure. The first function is to return the appropriate user function value so that the next activity in the Criminal case flow may be initiated; the second function is to set the appropriate attributes of the current case; the final function is to generate the occurrence of injunctions and external delays in the case.

Subroutine CHNG

This routine makes the appropriate parameter changes when an intercurrent change is found to be necessary. This is done by reading the parameter set number and the corresponding values for the change. Once the values are read, the appropriate arrays are filled.

RANDOM NUMBER STREAMS

This section defines the random number streams used in the execution of the Justice Resource Model. The seed values associated with these streams are given in the Q-GERT echo check.

Stream Number	Subject of Random Number Generation		
1	Criminal case		
2	Civil/U.S. case		
3	Federal Question case		
4	Diversity Jurisdiction case		
5	A. Stage selection		
,	B. Probability of checking private case at node 92		
б	Judge selection		

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DEFINITION OF A SIMULATION TIME UNIT

One unit of simulation time is equivalent to one working day (8 hours). A further breakdown of this relationship is presented in Table 5.

	Simulation Time	Actual Time
· · · · · · · · · · · · · · · · · · ·	1.00000	l day
	0.12500	1 hour
	0.09375	45 minutes
· · · · · · · · · · · · · · · · · · ·	0.06250	30 minutes
	0.03125	15 minutes
	0.02083	10 minutes
	0.01042	5 minutes

Table 5. Simulation/Actual Equivalence Time Table.

GLOSSARY OF USER-DEFINED PROGRAM VARIABLES

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This glossary contains significant program variable definitions used within the user-written subprograms of the Justice Resource Model. Those variables standard to the Q-GERT Analysis Program are excluded from this list.

Program Variable	Definition
BAIL	Probability of bail if detained
BETAJ	Beta factor for judge
BETAR	Beta factor for attorney (Criminal)
BETAV	Beta factor for attorney (Civil/U.S.)
CDA	Delay duration for a case passed by an attorney
CDJ	Delay duration for a case passed by a judge
CSTAT(I)	Judge allocation index 1 - judge I sent to courtroom queue 0 - judge I sent to noncourtroom queue
DIA	Duration of internal delay for an attorney
DIJ	Duration of internal delay for a judge
IACOL(I)	User COLCT number for the collection of interval statistics on the start of stage I for a case
IATTR(I)	< 0 - Activity I is a single episode activity > 0 - Attribute where the number of episodes is stored for activity I
IC	Attorney number or case type

Program Variable	Definition
ICA	Attorney number
ICJ	Judge number
ICRT(I)	<pre>Courtroom status array for resource I 0 - Free for assignment 1 - Other courtroom activity (judge</pre>
IDRTN (I)	Diversion return stage array - defined for first seven decision points < 0 - If return point for the diversion initiated at decision point I is a decision point > 0 - If return point for the diversion initiated at decision point I is an activity
IECHO	Variable to suppress user echo check l - Suppress 0 - Otherwise
IEPSD (I)	< 0 - Activity I is a single episode activity > 0 - Activity I requires multiple epi- sodes. Parameter set IEPSD(I) gives parameters for generation
INJ(I)	<pre>Injunction status array for resource I 0 - No injunction 1 - Injunction pending or in progress 2 - Injunction in progress (judge only)</pre>
ISCOL(I)	User COLCT number for the collection of interval statistics on Criminal case dispo-
KATH	Transaction counter
M2	Attorney number
M3	Judge number
NACR	Number of attorneys (Criminal)
NACV	Number of attorneys (Civil/U.S.)

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Program Varitale	Definition
NBRNCH (I)	Number of possible branches emanating from decision point I
NCNGN	> 0 - Number of parameter sets to be changed < 0 - Last user data card
NCSAR	Suppression index after an attorney's (Criminal) noncourtroom activity 1 - Suppress ICRT and INJ test 0 - Otherwise
NCSAV	Suppression index after an attorney's (Civil/U.S.) noncourtroom activity 1 - Suppress ICRT and INJ test 0 - Otherwise
NCSJ	Suppression index after a judge's noncourt- room activity 1 - Suppress ICRT and INJ test 0 - Otherwise
NEXTS(I,J)	<pre>Stage J follows decision point I (J=1,2,,NBRNCH(I)) < 0 - Decision point next > 0 - Activity next > 205 - Sink next = 0 - Error 550</pre>
NFOLW(I)	<pre>> 0 - Activity I followed by activity given by the value of NFOLW(I) < 0 - Activity I followed by decision point given by NFOLW(I) = 0 - Error 550</pre>
NJ	Number of judges
NOCSJ	Suppression index after a judge's other courtroom activity l - Suppress ICRT test 0 - Otherwise
NOCSR	Suppression index after an attorney's (Criminal) other courtroom activity 1 - Suppress ICRT test 0 - Otherwise
ŅOCSV	<pre>Suppression index after an attorney's (Civil/U.S.) other courtroom activity 1 - Suppress ICRT test 0 - Otherwise</pre>

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Program Variable	Definition
NQC1	Number of cases in resource's courtroom (public) queue
NQC2	Number of cases in resource's courtroom (private) queue (judge only)
NQNC	Number of cases in resource's noncourtroom queue
PCEXD(I)	Probability that an external delay will occur prior to the start of stage I
PCINJ(I)	Probability that an injunction will occur prior to the start of stage I
PMDTR(I)	Probability of an external delay prior to trial given that I external delays have already occurred (PMDTR(5) = PROB $ I \ge 5$)
PNEXT(I,J)	Probability of branching to stage J from decision point I
PPC	Probability against having this judge and attorney take on a public case
RLSE	Probability of release
RUMIN	Minimum time-integrated number of resource used of a specific type
SPEED(I)	Value assigned to attribute 10 when activity I is scheduled for a case requir- ing a speedy trial
ST (1)	Time to end of service activity for resource I
STT	Speedy trial time threshold
ufa (I)	User function value used to route the current transaction so that activity I may be initiated
WORK	Workload of a judge or an attorney (WORK = number of cases in noncourtroom queue + (beta)(number of cases in court- room queue)}
WTIM	Calculated waiting time that a resource is willing to wait

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Program Variable	Definition
WTMNJ	Minimum waiting time for a judge
WTMNR	Minimum waiting time for an attorney (Criminal)
WTMNV	Minimum waiting time for an attorney (Civil/U.S.)
WTMXJ	Maximum waiting time for a judge
WTMXR	Maximum waiting time for an attorney (Criminal)
WTMXV	Maximum waiting time for an attorney (Civil/U.S.)

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USER-SPECIFIED PROGRAM ERROR MESSAGES

This section augments Appendix 2 of Reference 1 with those errors which relate specifically to the Justice Resource Model.

Error Code	Location	Condition
333	UF4	Frequency of other courtroom services is 0 for Federal Question case. See parame- ter set 9.
334	UF4	Frequency of other courtroom services is 0 for Diversity Jurisdiction case. See parameter set 13.
336	UF4	Frequency of other courtroom services is 0 for Civil/U.S. case. See parameter set 23.
337	UF22	Public case has impossible attorney number assigned to it.
338	UF23	Private case has impossible case type assigned to it.
339	UF24	Private case has impossible case type assigned to it.
340	UF25	Private case has impossible case type assigned to it.
341	UF28	J/A case has impossible attorney number assigned to it.
342	UF26	Injunction is being handled as a trial B/J or an other courtroom activity.
343	UF26	Noncourtroom J/A or an external delay is being handled as a trial B/J or an other courtroom activity.

Error Code	Location	Condition
344	UF26	Other courtroom activity has impossible attorney number assigned to it.
345	UF26	Trial B/J has impossible attorney number assigned to it.
346	UF31	Frequency of external delay is less than 1 for Diversity Jurisdiction case with no judge. See parameter set 60.
347	UF32	Frequency of external delay is less than 1 for Federal Question case with no judge. See parameter set 61.
348	UF33	Frequency of external delay is less than 1 for Civil/U.S. case with no judge. See parameter set 62.
350	UF36	Attorney statistics are being kept on a private case.
351	UF36	Judge statistics are being kept on a case involving no judge service.
352	UF37	Attorney statistics are being kept on a private case.
353	UF37	Judge statistics are being kept on a case involving no judge service.
354	UF38	Attorney statistics are being kept on a private case.
`355	UF39	Attorney statistics are being kept on a private case
356	UF40	Judge statistics are being kept on a case involving no judge service.
357	UF41	Judge statistics are being kept on a case involving no judge service.
358	UF4	Criminal case is being assigned attributes.
359	UF29	Criminal case is being tested for trial.
360	UF30	Criminal case is being tested for B/J trial.

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Error Code	Location	Condition Other courtroom (Criminal case) activity number (i.e., A6) is infeasible.				
361	UF26					
362	UF28	Noncourtroom-attorney (Criminal case) ac- tivity number (i.e., A6) is infeasible.				
363	UF49	Probability of external delay for a Crim- inal case is being bested at node 162.				
550	NEXTA	Invalid branch selected from a decision point.				
551	NEXTA	Invalid branch selected from diversion.				
601	UI	Number of judges greater than 6.				
602	UI	Number of attorneys greater than 13.				
603	UI	Maximum waiting time for a judge is less than minimum waiting time.				
604	UI	Maximum waiting time for an attorney (Criminal) is less than minimum waiting time.				
605	UI	Maximum waiting time for an attorney (Civil/ U.S.) is less than minimum waiting time.				
606	UI	First activity emanating from node 203 does not end at node 205 (intercurrent change- first test for thresholds).				
607	UI	Activity emanating from node 205 does not end at node 205 (subsequent tests for intercurrent change thresholds).				
608	UI	Incorrect activity number for a delay duration for a case passed by a judge.				
609	UI	Second activity emanating from node 146 not found.				
610	UI	Incorrect activity number for delay dura- tion for a case passed by a judge.				
611	UI	Incorrect activity number for delay dura- tion for a case passed by an attorney.				

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	Error Code	Location	Condition
	612	UI	Second activity emanating from node 147 not found.
	613	UI	Incorrect activity number for delay dura- tion for a case passed by an attorney.
	614	UI	Incorrect activity number for second ac- tivity emanating from node 150.
	615	UI	Incorrect activity number for first ac- tivity emanating from node 150.
	616	UI	Incorrect activity number for both ac- tivities emanating from node 150.
	617	UI	Incorrect activity number for second ac- tivity emanating from node 152.
	618	UI	Incorrect activity number for first ac- tivity emanating from node 152.
	619	UI	Incorrect activity numbers for both activities emanating from node 152.
•	620	UI	Incorrect activity number for second ac- tivity emanating from node 154.
	621	UI	Incorrect activity number for first ac- tivity emanating from node 154.
	622	UI	Incorrect activity numbers for both ac- tivities emanating from node 154.
	623	UI	Incorrect activity number for second ac- tivity emanating from node 158.
	624	UI	Incorrect activity number for first ac- tivity emanating from node 158.
	625	UI .	Incorrect activity numbers for both ac- tivities emanating from node 158.
	626	UI	Incorrect activity number for second ac- tivity emanating from node 164.
	627	UI	Incorrect activity number for first ac-

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Error Code	Location	Condition
628	UI	Incorrect activity numbers for both ac- tivities emanating from node 164.
629	IJ	Incorrect end node for statistics clearing activity.
630	CHNG	Negative value read for the number of parameter sets to be changed. Probable causea second intercurrent change has occurred.
631	CHNG	Negative value read for parameter set number. Intercurrent change data input error.
632	CHNG	Negative value read for parameter 1. Intercurrent change data input error.
633	UI	Activity starting at node 62 and ending at node 71 not found.

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Feasible Stage Selection for Each Criminal Case

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Decision Point

D.P. ¹	NBRNCH	D.P. INDEX	NEXT STAGE	NEXTS (I,J)	BRANCH DESCRIPTION
1	5	1 2 3 4 5	DP2 DP3 DP8 A4 S2	-2 -3 -8 4 207	Declination/reinvestigation decision Grand Jury/Information Diversion (Community Service/Probation) Arrest and Arraignment Referral to State Court
2	2	1 2	Al Sl	1 206	Reinvestigation Declination
3	4	1 2 3 4	DP8 A2 A4 A5	-8 2 4 5	Diversion (Community Service/Probation Grand Jury Arrest and Arraignment Information
4	4	1 2 3 4	DP8 A3 A4 S3	-8 3 4 208	Diversion (Community Service/Probation Indictment Arrest and Arraignment No Bill
5	2	1 2	DP8 A4	-8 4	Diversion (Community Service/Probation) Arrest and Arraignment
6	2	1 2	DP8 A4	-8 -1	Diversion (Community Service/Probation) Arrest and Arraignment

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Table C-1. Feasible Stage Selection for Each Criminal Case Decision Point.

1 Decision Point

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1

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2

2

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2

3

DP8

DP11

DP9

1 IDRTN(I)

S4

1 IDRTN(I)

S5

S6

DP13

A12

DP10

7

8

9

10

11

Diversion (Community Service/Probation)

Successful Diversion via Community

Successful Diversion Via Voluntary

Case Preparation/Plea Bargain (Not

Preparation for Sentencing (Guilty Plea)

Declination/Enter Plea

Unsuccessful Diversion

Unsuccessful Diversion

Community Service

Service

Probation

Guilty Plea)

Declination

Voluntary Probation

Table C-1. Continued.

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D.P. ¹	NBRNCH	D.P. INDEX	NEXT STAGE	NEXTS (I,J)	BRANCH DESCRIPTION
12	2	1	NA	0	
_		2 .	NA	0	
13	2	1	<u>д</u> б	6	Initial Case Preparation
		2	A7	7	Plea Bargaining Negotiations
14	2	1	s7	212	Declination
		2	А7	7	Plea Bargain Negotiations
15	2	 l	• NA	0	
		2	NA	0	
16	2	1	 A8	8	Successful Plea Bargain (Rearraignment)
		2	A9	9	Final Case Preparation (No Plea Bargain)
17	2	1	A10	10	Bench Trial
		2	All	11	Jury Trial
18	2	 1	A12	12	Conviction (Preparation for Sentencing)
		2	S 8	213	Acquittal or Dismissal
19	 б	 1	DP20	-20	Probation/Rearrest
		2	DP21	-21	Mixed Sentence/Rearrest
		3	DP22	-22	Split Sentence/Parole
		4	DP23	-23	Incarceration/Parole
		5	S9	214	Fines
		6	S10	215	Appeal
20	2	 l	 д4	4	Rearrest and Arraignment
		2	S 11	216	Probation
21 2	2	 l	A4	4	Rearrest and Arraignment
		2	S1 2	217	Mixed Sentence
22	2	1	DP24	-24	Parole/Rearrest
		2	S14	219	Split Sentence
23	2	1	DP24	-24	Parole/Rearrest
		2	S15	220	Incarceration
24	2	l	А4	4	Rearrest and Arraignment
		2	S13	218	Parole

Description of Files

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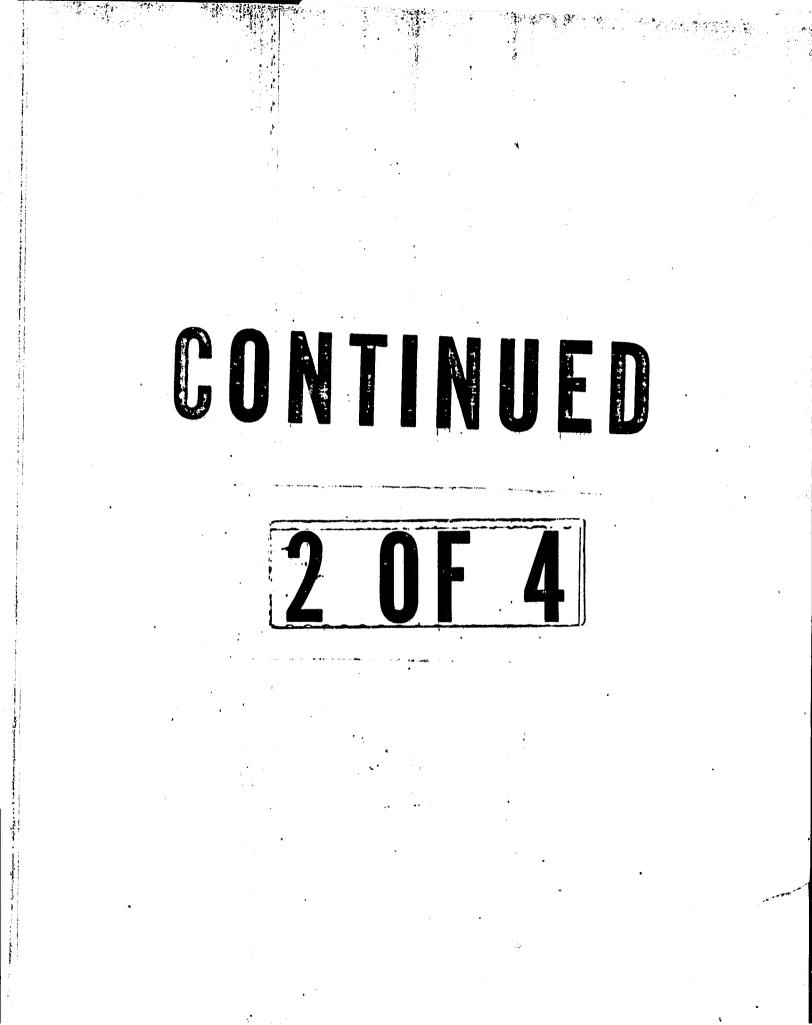
5 ------

In order to operate the Q-GERT program on the Justice Data Center's CMS system, a brief outline of file structure and input format is necessary. The Resource Model program utilizes the following files:

- USERDJ SCRAT D Input cards for Resource and Criminal Model. The following pages present the format for input cards. The Q-GERT cards define the structure of the network, while the "Sample Input Cards" are the parameters to be changed by the user.
- BGERTM FORTRAN D DATINB FORTRAN D
 BGERTZ FORTRAN D
 Main Q-GERT program, divided into three parts. These files have been made part of the Al.PROGLIB on the OS system. The original files exist in packed form on disk.
- BJUSER FORTRAN A User FORTRAN inserts for Resource and Criminal Model. This file is also part of the Al.PROGLIB on the OS system. The original file exists on disk.
- DOJRE PRICE A JCL cards for submitting the Resource Model to the batch system under CMS. The input card file is inserted after the FILEDEF statements.

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Description of Q-GERT Inputs



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SECTION DESCRIPTION	CARD NAMES
Criminal Case Structure	
Echo Check (Suppress Flag)	IECHO
Criminal Case Structure (User Defined)	PCINJ PCEXD PROB UDP 1 - UDP 24
Simulation Parameters	SIM PAR
System Parameters	Card 1 - Card 12
Criminal Parameter Sets	Card 13 - Card 28
Civil/U.S. Parameter Sets	Card 29 - Card 40
Federal Question Parameter Sets	Card 41 - Card 49
Diversity Jurisdiction Parameter Sets	Card 50 - Card 58
Incurrent Changes	IC1 - IC 3
Parameter Changes	PARCHG 1 - PARCHG 3
End of User Data	NEG

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Card Name	Description
	** System parameters **
Card 1	Number of units of each resource type available
Card 2	Beta parameters associated with each each resource type
Card 3	Amount of time a particular resource is willing to wait for another resource
Card 4	Suppression indicators to prevent certain tests from being made prior to freeing various resource types
Card 5	Speedy trial time threshold
Card 6	Delay durations
Card 7	Probability of <u>no</u> judge involvement for a given case type
Card 8	Probability of internal delay for a judge or attorney following completion of a trial
Card 9	Probability of an external delay stage given that at least one more episode of this stage remains
Card 10	Probability of an injunction occurring in the life of a particular case type
Card 11	Probability of trial occurring in the life of a particular case type
Card 12	Probability of having a judge and attorney accept a public case

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Card Name	Description
	** CRIMINAL PARAMETER SETS **
Card 13	Criminal interarrival time parameters
Card 14	Criminal injunction duration parameters
Card 15	Criminal bench trial duration and episode parameters
Card 16	Criminal jury trial duration and episode parameters
Card 17	Criminal grand jury (other courtroom) duration and episode parameters
Card 18	Criminal indictment (other courtroom) duration parameters
Card 19	Criminal arraignment (other courtroom) duration parameters
Card 19A	Criminal rearraignment hearings (other courtroom) duration parameters
Card 20	Criminal sentencing (other courtroom) duration parameters
Card 21	Criminal pre-sentencing investigation (noncourtroom-judge) duration parameters
Card 22	Criminal investigation (noncourtroom- attorney) duration parameters
Card 23	Criminal information (noncourtroom- attorney) duration parameters
Card 24	Criminal initial case preparation (noncourtroom-attorney) duration parameters
Card 25	Criminal plea bargaining negotiations (noncourtroom-attorney) duration and episode parameters
Card 26	Criminal final case preparation (noncourtroom-attorney) duration parameters

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Card Name	Description	
Card 27	Criminal preparation for sentencing (noncourtroom-attorney) duration parameters	en e
Card 28	Criminal external delay duration parameters	• .
	** CIVIL/U.S. PARAMETER SETS **	
Card 29	Civil/U.S. interarrival time parameters	
Card 30	Civil/U.S. injunction duration and episode parameters	
Card 31	Civil/U.S. bench trial duration and episode parameters	
Card 32	Civil/U.S. jury trial duration and episode parameters	
Card 33	Civil/U.S. other courtroom duration and episode parameters	
Card 34	Civil/U.S. noncourtroom (judge) dura- tion and episode parameters	•
Card 35	Civil/U.S. noncourtroom (attorney/judge involvement) episode parameters	
Card 36	Civil/U.S. noncourtroom (attorney/no judge involvement) episode parameters	
Card 37	Civil/U.S. noncourtroom (attorney) duration parameters	
Card 38	Civil/ 2. external delay (judge involvement) episode parameters	
Card 39	Civil/U.S. external delay (no judge involvement) episode parameters	
Card 40	Civil/U.S. external delay duration parameters	

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Card Name	Description
	** FEDERAL QUESTION PARAMETER SETS **
Card 41	Federal Question interarrival time parameters
Card 42	Federal Question injunction duration and episode parameters
Card 43	Federal Question bench trial duration and episode parameters
Card 44	Federal Question jury trial duration and episode parameters
Card 45	Federal Question other courtroom duration and episode parameters
Card 46	Federal Question noncourtroom (judge) duration and episode parameters
Card 47	Federal Question (judge involvement) external delay episode parameters
Card 48	Federal Question (no judge involvement) external delay episode parameters
Card 49	Federal Question external delay dura- tion parameters
**	DIVERSITY JURISDICTION PARAMETER SETS **
Card 50	Diversity Jurisdiction interarrival time parameters
Card 51	Diversity Jurisdiction injunction duration and episode parameters
Card 52	Diversity Jurisdiction bench trial duration and episode parameters
Card 53	Diversity Jurisdiction jury trial duration and episode parameters
Card 54	Diversity Jurisdiction other courtroom duration and episode parameters

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Card Name	Description
Card 55	Diversity Jurisdiction noncourtroom (judge) duration and episode parameters
Card 56	Diversity Jurisdiction (judge involve- ment) external delay episode parameters
Card 57	Diversity Jurisdiction (no judge involvement) external delay episode parameters
Card 58	Diversity Jurisdiction external delay duration parameters
	** INTERCURRENT CHANGES **
ICJ	Intercurrent changes testing times
IC2	Intercurrent changes threshold values
1C3	Test indices for intercurrent changes
	** PARAMETER CHANGES **
PARCHG 1	Number of parameter sets changed
PARCHG 2	Parameter set number
PARCHG 3	Parameter values
	** END OF USER DATA **
NEG	End of user data
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Q-GERT Input Data Format

1.4.2

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Q-GERT INPUT DATA FORMAT

Field Number	Description	Value	Default	Editing	Associated Errors
.1	Card type	GEN	(Required)	= 'GEN'	8101
2	Analyst name	Alpha field (up 12 signtficant characters)	12 blanks	If present, first character must be alphabetic (only first 12 characters are processed)	102
3	Project name or number	Alpha field	12 blanks	(see previous field)	103
4	Month	Integer	ì	Integer between 0 and 12	104
5	Day	Integer	1 ·	Integer between 0 and 31	105
6	Year	Integer	2001	Integer between 1970 and 2001	106
7	Number of STAtistics nodes	Integer	0	Integer between 0 and maximum number of nodes	107
8	Number of SINk nodes	Integer	0	Integer between 0 and maximum number of nodes	108
9	Number of SINk node releases to end a run	Integer	value in Field 8	Integer	109
10	Time to end one run of the network	Real	1.E20	Positive real	110
11	Number of runs of the network	Integer	1	Positive integer	111
12	Indicator for output reports in addition to the final summary report	First Run, Each Run. Cumulative & Each Run, Summary Only	First	= 'F' or 'E' or 'C' or 'S'	112
13	Time from which statistics will be kept on each run	Real	0	Non-negative real	113
14	Maximum number of attributes with each transaction flowing through the network	Integer	0	Non-negative integer	114
15	Run number for beginning of event tracing	Integer *	0→no tracing	Integer between 0 and value of Field 11	115
16	Run number for ending of event tracing (this run will be traced)	Integer	Value of Field 15	Integer between value of Field 15 and value of Field 11	116
17	Run number for beginning of nodal tracing	Integer	0→no tracing	Integer between 0 and value in Field 11	115
18	Run number for ending of nodal trace.(this run is traced)	Integer	Value in Field 17	Integer between value in Field 17 and value in Field 11	116
19	Indicator that only input cards with errors are to be listed	<u>E. r</u> ors only All cards	All input cards listed	= 'E'	119
20 Execution option		$ \underline{E1} - No execution \underline{E2} - No execution if any input discrep- ancies \underline{E3} - No execution if fatal input discre- pancy$	Ε3	= 'E1', 'E2', 'E3', or 'E4' (E4 Echo suppressed)	120
21	Largest node number defined by user. (Specify only when including subnetworks.)	Integer	MXNOD	Integer .	
22	Largest activity number defined by user. (Specify only when including subnetworks).	Integer	MXNPO	Integer	

1. GEN - general project information

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2. REG-regular node description or

SOU-source node description

Field Number	Description	. Value	Default	Editing	Associated Errors
1	Card type	REG or SOU	(Required)	= 'REG' or 'SOU'	6003
2	Node number	Integer	(Required)	Integer between 1 and maximum number of nodes	8002
3	Initial number of incoming transactions to release the node.	Integer	1 if REG 0 if SOU	Non-negative integer (0 if and only if SOU)	8003
4	Subsequent number of incoming trans- actions to release the node (after the first release)	Integer (to specify • infinite, use default)	Infinite	Pozitive integer	8003
5	Output characteristics of node	Probabilistic Deterministic First (conditional, take first) All (conditional, take all)	Deterministic	= 'P', 'D', 'F', or 'A'	205
6	Indicator that this node is to mark	Mark	M if SOU No M if REG	= 'M'	205
7	Criterion for associating an attribute set with a transaction passing through a node/	Hold the attribute set of the transaction arriving First Last or hold attribute set of the transaction with the Smallest value in a given attribute Biggest value in a given attribute	Last	= 'F', 'L', 'S', or 'B'	207
	If Small or Big specified, the number of the attribute to be used or 'M' for mark time	Integer or 'M'		Integer between 1 and maximum numb of attributes specified for a transaction or 'M'	er 7207

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	SIN or STA	(Required)	= 'SIN' or 'STA'	8000
2	Noce number/Label for output identifi- cation	Integer/8 characters	(Required)/ Blanks	Integer between 1 and maximum number of nodes	8002
3	Initial number of incoming transactions to release the node	Integer	1	Positive integer	8003
4	Subsequent number of incoming transactions to release the node (after the first release)	Integer (to specify infinite, use default)	Infinite	Positive integer	8003
5	Output characteristics of node	Probabilistic Deterministic First (conditional, take first) All (conditional, take all)	Deterministic	= 'P', 'D', 'F', or 'A'	205
6	Statistical quantities to be collected	First (time of first rclease) All (time of all releases) Between (time between releases) Interval (time interval from most recent marking of transaction to release of this node) Delay (delay from first ar- tiving transaction until the ncde is released)	First	= 'F', 'A', 'B', 'I', or 'D'	306
7	The upper limit of the first cell for the histogram to be obtained for this node. The first cell of the histogram will contain the number of times the statistic of interest at this node had a value less than or equal to the value given in this field.	Real or 'N'	N → no re- porting of statistics	Real or 'N'	
8	The width of each cell of the histogram. Each histogram contains 20 cells. The lest cell will contain the number of times the statistic of interest at this node had a value greater than the upper limit of the first cell (Field 7) plus 18 x cell width (Field 8).	Real or 'N'	N → no re- porting of statistics	Positive real or 'N'	
9	Criterion for associating an attribute set with a transaction passing through a node	Hold the attribute set of the transaction arriving First Last or hold attribute set of the transaction with the Smallest value in a given attribute Biggest value in a given attribute	Last	= 'F', 'L', 'S', or 'B'	
	If Small or Big specified, the number of the attribute to be used or 'M' for mark time	Integer or Mark Time	Mark Time	Integer between 1 and maximum number of attributes specified for a transaction or 'M'	7207

3. SIN - sink node description or STA - statistics node description

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Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	QUE	(Required)	= 'QUE'	8000
2	Node number/Label for output identifi- cation	Integer /S'char- actera	(Required)/ Blanks	Integer between 1 and maximum number of nodes	\$002
3	Initial number in queue	Integer	0.	Non-negative integer	403
4	Maximum number permitted in queue	Integer (to specify infinite, use default)	Infinite	Non-negative integer	404
5	Output characteristics of node	Deterministic Probabilistic	Deterministic	= 'P' or 'D'	205
6	Ranking procedure for Q-node/	FIFO-first in- first out LIFO-last in- first out Small value first (based on attribute value) Big value first (based on attribute value)	FIFO_	= 'F', 'L', 'S', or 'B'	406
	For Q-nodes ranked by Small or Big, the number of the attribute on which the ranking is based	Integer or Mark Time	Mark Time	Integer between 1 and maximum number of attributes or 'M'	7207
7	Balking or blocking information	Blocking or Integer =- node number to which balkers are sent	Balkers are lost to system -	= 'B' or integer between 1 and maximum number of nodes	407 8407 8408 8409
8	The upper limit of the first cell for the histogram to be obtained for this node.	Real or 'N'	$N \rightarrow no re-$ porting of statistics	Real or 'N'	
9	The width of each cell of the histogram. Each histogram contains 20 cells.	Real or 'N'	$N \rightarrow no re-$ porting of statistics	Positive Real or 'N'	
10-31	Selector nodes or the MATCH node on output side of Q-node (if any) (but not if a service activity emanates from the Q-node) When more than one S-node is specified, the order of appearance in these fields determines the priority given to the associated S-nodes.	Integer	No S.node or MATCH node node on output side of Q-node	Integer between 1 and maximum number of nodes	8410 8411

Field Number	Description	Value ·	Default	Editing	Associated Errors
1	Card Type	MAT	(Required)	= 'MAT'	6003
2	Node Number	Integer	(Required)	Integer between 1 and maximum number of nodes	8002
3	Matching attribute Number or M for mark time	Integer or Mark Time	Mark Time	Integer between 1 and maximum number of attributes for the simulation or 'M'	7207
4	Q-nodes containing transactions to be matched by this match node (up to 5 Q-nodes are allowed)/	Integor		at least 2 Q-nodes associated with the Match node	E 604
•	Nede number to which a matched transaction from Q-node is to be routed	Integer	No routing		
5-8	Repeats of Field 4. At least 1 repeat required and at most 4 repeats allowed.				8605

6. MAT - match node description

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10. ACT - Activity description

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card Type	ACT	(Required)	= 'ACT"	8000
2	Start node	Integer	(Required)	Number of an existing node	9002
3	End node	Integer	(Required)	Number of an existing node (not an assembly node)	9003
4	Distribution or function type	2 character ID chosen from list of distribution types (Table A1)	CO	= 2 character 1D from Table A1	1004
5	Parameter set number or value of constant	Integer or Real	0.0		1005
6	Activity number/	Integer	System- assigned	Integer between 0 and maximum number of activity numbers	1006 9006 9105
	Label for server identification	8 characters	Blank		
7	The number of servers represented by this branch	Integer	1	Non-negative integer	1007 9007
8 or	Probability (only applicable if start node has 'P' branching or start node is a SELector using RFS rule)	Real number between 0. and 1. or attribute number where probability is stored	0.5	Real number between 0. and 1. or non- negative integer	1008 9008
8	Order of testing conditions (only applicable if start node has 'F' branching' or start node is a SELector using POR rule**)	Non-negative number (integer or real)	0 (= condi- tions tested in order of input.	Non-negative number	9008
9	Condition code (only applicable if start node has 'F' or 'A' branching)	See Condition Codes List***	Start node released (Ni.R).		1009 9009 9010 9011

• For each activity emanating from a start node with F (conditional, take first) output, an order value should be specified. When the start node is released, conditions on associated branches will be tested in ascending order (low values first) based on this value. ** The "preferred order" for selection from free servers is ascending order (low value first) based on this value.

••• Condition codes allowed are:

T.A.V	Time . R. Value
T.R.Ak	Time .R. Attribute k
Aj. <i>r</i> ī.V	Attribute j. R. Value
Aj.A.Ak	Attribute j. A. Attribute k

where A=[LT;LE;EQ;NE;GT; or GE]

Ni.R	Node i Released
Ni.N	Node i Not Released
NAj.R	Node Aj Released
NAj.N	Node Aj Not Released

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	PAR	(Required)	= 'PAR'	8000
2	Parameter set number	Integer	(Required)	Integer between 1 and maximum number of parameter sets	8902
3	Parameter 1	Real	0.	Real	903
4	Parameter 2	Real	-1020	Real	903
5	Parameter 3	Real	1020	Real	903
6	Parameter 4	Real	0.	Real	903
7	Random Number Stream	Integer .	MXSTR=10	Integer	903

PAR 9. parameter set description

A sample is obtained from a distribution such that if a sample is less than the minimum value, the sample value is given the minimum value. Similarly, if the sample is greater than the maximum value, the sample value is assigned the maximum value. This is not sampling from a truncated distribution but sampling from a distribution with a given probability of obtaining the minimum and maximum values.

The parameters required to sample from the distributions are described below. The parameter values for the lognormal (LO), triangular (TR), beta (BE), gamma (GA), and beta PERT (BP) are modified to simplify random sampling. Thus, parameter sets for these distributions must not be used for any other distributions, i.e., a parameter set for a lognormal distribution must only be used for sampling from a lognormal distribution.

For COnstants, no PAR card is used. The value of the constant is taken as the value given to parameter set specification.

For NOrmal, LOgnormal, BEta, and GAmma distributions

Parameter 1	The mean value
Parameter 2	The minimum value
Parameter 3	. The maximum value
Parameter 4	The standard deviation

For UNiform distribution

Parameter 1	Not used
Parameter 2	The minimum value
Parameter 3	The maximum value
Parameter 4	Not used
For EXponen	tial distribution

Parameter 1 The mean value Parameter 2 The minimum value Parameter 3 The maximum value Parameter 4 Not used

For ERlang distribution

The mean time for the Parameter 1 Erlang variable divided by the value given to Parameter 4 Parameter 2 The minimum value Parameter 3 The maximum value The number of Parameter 4 exponential deviates to be included in the sample obtained from the Erlang distribution

For POisson distribution

Parameter 1	The mean minus the minimum value
Parameter 2	The minimum value
Parameter 3	The maximum value
Parameter 4	Not used

Care is required when using the PO isson since it is not usually used to represent an interval of time. The interpretation of the mean should be the mean number of time units per time period.

For BP and TRiangular distribution

- Parameter 1 The most likely value m
- Parameter 2 The optimistic value a
- Parameter 3 The pessimistic value b

Parameter 4 Not used

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	VAS	(Required)	= 'VAS'	6003
2	Node number at which assignment is to be made	Integer	(Required)	Integer between 1 and maximum number of nodes	8502 8812
3	Number of the attribute to which the assignment is to be made	Integer	1	Integer between 1 and maximum number of attributes	8803
4	Distribution or function type for the essignment	2 character ID chosen from list of distribution types (Table A1)	со	= 2 character ID from Table A1	804
5	Parameter set number for the assignment	Intege r or Real	0.0	Integer or Real	805
6-26	(Repeat Fields 3, 4, and 5 to specify up to 7 additional assignments. Use only 1 VAS input card for each node at which assignments take place)				806 8807

8. VAS • value assignments to attributes of transactions

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card Type	RES .	(Required)	= 'RES'	8000
2	Resource Number/	Integer	(Required)	Nonnegative integer ≤ MRRES	8002
	Label	8 characters	Blanks		
3	Number of units of this resource type available	Integer	1	Positive Integer	
4–13	Resource ALLOCATE nodes to be polled when resource is freed	Integer	No ALLO- CATE nodes associated with resource definition	Integer between 1 and maximum number of nodes	

25. RES - resource type definition

26. ALL - allocate node description

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Field	Description	Value	Default	Edition	Associated
Number	Description	value	Default	Editing	Errors
1	Card type	ALL	(Required)	= 'ALL'	8000
2	Node number	Integer .	(Required)	Integer between 1 and maximum number of nodes	8002
3	Queue selection rule	3 character ID from list of queue selection rules (Table A1)	POR	= 3 character ID from Table A1	503
4	Resource number	Integer	1	Integer between 1 and max. number of resources	
5	Resource units required by waiting transactions at associated Q-nodes	Integer	1		
6	Q-node in which transaction is waiting for resources/	Integer	(At least 1 required)	Integer between 1 and maximum number of nodes	
	Node number to which transaction is to be routed when resources are allocated	Integer	No routing	Integer between 1 and maximum number of nodes	
7-16		(Repeats	of Field 6)		

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	FRE	(Required)	= 'FRE'	8000
2	Node number	Integer ·	(Required)	Integer between 1 and max. number of nodes	8002
3	Output characteristics	P, D, F, A	D	= 'P', 'D', 'F', or 'A'	
4	Resource number	Integer or Ak where k is an attribute number	1		
5	Resource units to be freed	Integer or Aksierre k is attribute 193 se or	1		
6–15	ALLOCATE nodes in the order to be polled to allocate freed resource units	Integer	Use ALLOC list given in RES card for resource number	List of ALLOC nodes con- catenated to list provided unless a nega- tive value is given after list	

27. FRE - free node description

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	MOD	(Required)	-= 'NIOD'	6003
2	Activity number	Integer •	(Required)	Integer between 1 and maximum number of activities	9102
3	Node to be replaced (number of node to be replaced when the activity given in Field 2 is completed)	Integer _	(Required)	Number of existing node	9103
4	Replacement node (number of node to be inserted into the network in place of the specified node in the preceding field when the activity in Field 2 is completed)	Integer	(Required)	Number of existing node not equal to value in Field 3	1104 9103
5-24	(If multiple replacements are to occur upon completion of activity prescribed by Field 2, then Fields 3 and 4 should be repeated for each additional replacement. The limit of replacements is 11.				1105 9105

11. MOD - node modification information (required only if network contains nodes to be modified)

13. FIN - finish of all networks

Field Number	Description	Value	Default	Editing	Associated Errors
1	Card type	•	(A blank card may be used in lieu of <i>FIN</i> card)		1301 8000

Listing of Data Cards and FORTRAN Listing

INPUT CARDS: RESOURCE MODEL

÷.,									
	GEN PRI	TSKER, MA	THTECH,7,	1,1979	.5.0.	.100.	•1•E•0		
	- PAR,1,,	8695,.00	001,1000.	· · 1*		,1001	· • • • • • • • • • •		· · · · ·
	PAR:2:.	5119,.00	001,1000.	yy2*					
	PAR:3,,	3963,.00	001,1000.	,,3*					
	PAR,4,	7595,100	001,1000.	,,4*		•		•	•
		14.,19.,							
	PAR, S,,	1.,6.,,1	*						
	- PAR=7=3	.5,3.,4.	**3*				•	•	
	-PAR:8y1	.5,1.,2.	**3*						
-	FAR, 9,2	.5,2.,3.	,,3*						
		2.5,2.,3							
	PAR:12,	1.5,1.,2	4*						
	PAR,13,	2.5,2.,3	• • • 4*						
	PAR, 14,	3.5,3.,4	+ F + 4×						
	PAR, 16,	3.5,3.,4	· · 1 *						
	PAR,18,	3.5,3.,4	1*						
	PARy19,	1.5,1.,2	· · · 1×						
	PAR,20,	10.5,10.	,11.,,1*					•	
-	PARy21,	4.5,4.,5	+ + + 2*						
•		1.5,1.,2							
	PAR / 23 /	2.5,2.,3	2*						
		2.5,2.,3							
	PAR, 25,	7.5,7.,8	.,,2*						
	PAR, 26,	3.5,3.,4	• • • 3*						
	PARy 27;	2.5,2.,3	• 7 7 4 K						
	PAR, 28,	2.5,23	1*						
		3.5,3.,4							
- ·	PAR, 30,	4.5,4.,5	3*						
	PAR, 31,	4.5,4.,5	. , , 4*						
	PAR: 32:	3.5,3.,4	• • • 1 *						
		3.5,3.,4							
	PAR: 34,	100.,99.	,101.,,3*	•					
	FAR, 35,	85.,84.,	864*						
	PAR, 36,	20.,19.,	21.,,1*						
		55.,54.,							
			0001,.001	,,1*					
			1,.1,,2*						
_	PAR:40,	1975,.1	8,.195,,38	k					
	PAR: 41.	.18751	8 195 48	ĸ					
	PAK+42,	01259.0	1++02++3*				•		
	PAR:43:	.025,.02	1.03114*						
	PAR,44,	.5,.45,.	55,,3%						
			3,,445,,3%	ĸ					
	PAR: 46;	.5,.45,.	55,,4*						
	PAR: 47,	43751.4	3,,445,,48	κ.					
		51.451.							
	PAR,49,	51.451	55,,1*						
	PAR: 50,	375,37	,.38,,2*						
		51.457.							
			8,.195,,1%	K.					
	PAR,53,	125.12	,.13,,2*						
-1	PAR: 547	125,.12	13,13*						
	PAR: 55 .	125,.12	7 . 13 , , 4*				•	6	
	PAE: 56,	.0625,.0	6,.065,,11	ĸ					
	PAR: 57:	0625,.0	6,.065,,2%	k					
	PAR, 58,	375,.37	,.38,,1*						
	PAR; 59,	3125,.3	1,.315,,2%	ĸ					
		1.5,1.,2		•					
		1.5,1.,2							
	PAR, 62,2	2.5,2.,3	· · · 2*						
		1.5,1.,2							
	PAR, 64,3	3.5,3.,4	• • • 2*						
	•								
		- 1 C - 1							

PAR, 65, 5.5, 1., 6., , 1*	۰.
PAR, 66, 6, 13, 1*	
PHRYODY/C/LO//LA	
PAR+67+4.5+4.+5.++4*	
PAR:68,,,,,1*	
PARy69,,,,1*	
FAR#70,+6,13,,1*	
PAR+71+,15,20,,2*	
PAR,72,,1,6,,6*	
QUEUE NODES	
QUE, 19/INJ-JDG, , , D, (10)97*	
QUE,20/INJ-ATT,,,D,(10)97*	
QUE,39/TOC-JDG,,,D,(10)113*	
QUE,40/TOC-ATT,,,D,(10)113%	
RUE,74/JDG1-CT,,,D,B/10,(10)1*	
QUE,75/JDG2-CT,,,B,B/10,(10)2*	
	÷.
QUE,75/JDG3-CT,,,D,B/10,(10)3*	
QUE,77/JDG4-CT,,,D,B/10,(10)4*	
QUE:73/JDG5-CT,,,D,B/10,(10)5*	
QUE,79/JDG5-CT,,,D,B/10,(10)6*	
QUE,80/ATT1-CT,,,D,B/10,(10)7*	
• QUE,81/ATT2-CT,,,D,B/10,(10)8*	
QUE,82/ATT3-CT,,,D,B/10,(10)9*	
QUE,83/ATT4-CT,,,0,8/10,(10)10*	
QUE,84/ATT5-CT,,,D,8/10,(10)11%	
QUE, 95/ATT6-CT,,, D, B/10, (10)12*	
QUE; E5/ATT7-CT,,, D, B/10, (10)13*	
QUE,97/ATT8-CT,,,D,B/10,(10)14*	
QUE,88/ATT9-CT,,,D,B/10,(10)15*	
QUE, S9/ATT10-CT,,,D,B/10,(10)16*	
QUE,90/ATT11-CT,,,D,B/10,(10)17*	
QUE, 91/ATT12-CT,,,D,B/10,(10)18*	
QUE:124/JDG1-NC;;;D;(10)21*	
QUE,125/JDG2-NC,,,D,(10)22*	
QUE,126/JDG3-NC,,,D,(10)23*	
QUE 127/JDG4-NC, , , D, (10)24*	
QUE:128/JDG5-NC,,,D,(10)25*	
QUE, 129/JDG6-NC, , , D, (10)26*	
QUE:130/ATT1-NC::/D:(10)27*	
QUE,131/ATT2-NC,,,D,(10)28*	
QUE:132/ATT3-NC;;;D;(10)29*	
QUE - 133/ATT4-NC++ - D+(10)30*	
QUE,134/ATT5-NC,,,D,(10)21*	
QUE,135/ATT6-NC, v. D. (10)32*	
QUE, 136/ATT7-NC,, ,D, (10)33*	
QUE:137/ATT8-NC;;;D;(10)34*	
QUE, 138/ATT9-NC, , , D, (10)35*	
QUE,139/ATT10-NC,,,D,(10)36*	
QUE,140/ATT11-NC,,,D,(10)37*	
QUE,141/ATT12-NC:,,D,(10)38*	
QUE.135/FRI-M-J1,(10)186*	
QUE,199/FR1-M-J2,(10)187*	
QUE: 200/PEI-M-J3; (10)188*	
QUE:201/PRI-M-J4:(10)189*	
QUE:202/PET-M-J5;(10)190*	
QUE,191/PRI-J1,(10)186*	
QUE 192/PRI- J2, (10)187*	
QUE, 193/PRI-J3, (10) 188*	
QUE, 194/PRI-J4: (10)189*	
RUE: 195/PRI-J5; (10) 190% -	
QUE, 221/PRI-J6, (10) 223*	
QUE: 222/PRI-M-J6: (10)223*	
QUE,224/ATT13-CT,,,D,B/10,(10)225*	
QUE,226/ATT13-NC,,,D,(10)227*	
RESOURCE NODES	
RES,1/JUDGE1,1,1,21*	
RES, 2/JUDGE2, 1, 2, 22*	
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INJUNCTION: JUDGE IS WAITING FOR ATTORNEY INJUNCTION: ATTORNEY IS WAITING FOR JUDGE TRIAL B/J OR 0.C. JUDGE IS WAITING FOR AT TRIAL B/J OR 0.C. ATTORNEY IS WAITING FOR COURTROOM CASE QUEUE FOR JUDGE 1. 2. 3. 4. 5.

NON-COURTROOM CASE QUEUE FOR JUDGE 1. 2.

3._ 4. 5.

RES/3/JUDGE3,1,3,23** RES,4/JUDGE4,1,4,24* RES, 5/JUDGE5, 1, 5, 25* RES+6/JUDGE6,1,6,26* RES,7/ATTY1,1,7,27* RES,8/ATTY2,1,8,28* RES,9/ATTY3,1,9,29* RES,10/ATTY4,1,10,30* RES,11/ATTY5,1,11,31* RES,12/ATTY6,1,12,32* RES,13/ATTY7,1,13,33* RES,14/ATTY8,1,14,34* RES,15/ATTY9,1,15,35* RES,16/ATTY10,1,16,36* RES, 17/ATTY11, 1, 17, 37* RES,18/ATTY12,1,18,38* RES, 19/ATTY13, 1, 225, 227* *ALLOCATE NODES* ALL,1,,1,1,74/92* ALL,2,,2,1,75/92* ALLy3, 3, 1, 76/92% ALL , 4, , 4, 1, 77/92* ALL:5: ,5,1,78/92* ALL, 6, , 6, 1, 79/92* ALL,7,,7,1,80/96* ALL, 87, 8, 1, 81/96* ALL, 9, 9, 9, 1, 82/96* ALL:10,,10,1,83/96* ALL:11:11:1984/96* ALL:12:11,85/96* ALL:13,,13,1,86/96* ALL, 14,, 14, 1, 87/96% ALL,15,,15,1,88/96* ALL:15,,16,1,89/96* ALL, 17,, 17, 1, 90/96* ALLy18,,18,1,91/96* ALL>21,,1,1,124/142* ALL, 22, , 2, 1, 125/142* ALL,23,,3,1,126/142* ALL,24,,4,1,127/142% ALL,25,,5,1,128/142* ALLy26,,6,1,129/142* ALLy27,,7,1,130/143* ALL,28,,8,1,131/143* ALL:28,,9,1,132/143* ALL,30,,10,1,133/143* ALL:31,,11,1,134/143* ALL:37,,12,1,135/143* ALL+33++13+1+136/143* ALL, 34,,14,1,137/143* ALL,35,,15,1,138/143* ALL,36,,16,1,139/143* ALL+37++17+1+140/143* ALL,38,,18,1,141/143* ALL, 225, 19, 1, 224/96* ALL, 227, 919, 1, 226/143* *FREE NODES* FRE:100;;A3;1* FRE,119,,1,1,21,1* FRE,120,,2,1,22,2* FRE,121,,3,1,23,3* FRE,122,,4,1,24,4* FRE,123,,5,1,25,5* FRE,146,F,A3,1* FRE,147,F,62,1* FRE,157,,A3,1* FRE,165,,A3,1* FRE,166,,A2,1*

COURTROOM: JUDGE 1 HANDLES THE CASE.

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NON-COURTROOM: JUDGE 1 HANDLES THE CASE.

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FREE JUDGE CT/NC AFTER INJUNCTION. FREE JUDGE 1 NC/CT AFTER COURTROOM CASE. 2 3 4 5 FREE JUDGE CT/NC AFTER PASSING COURTROOM FREE ATTORNEY CT/NC AFTER PASSING COURTRO FREE JUDGE CT/NC TO HANDLE AN INJUNCTION. FREE JUDGE CT/NC AFTER NON-COURTROOM CASE

FREE ATTORNEY CT/NC AFTER NON-COURTROOM C

FRE,168,,19,1,227,225* FRE,169,,7,1,27,7* FRE,170,,8,1,28,8* FRE,171,,9,1,29,9* FRE,172,,10,1,30,10* FRE,173,,11,1,31,11* FRE, 174, , 12, 1, 32, 12* FRE,175,,13,1,33,13* FRE,176,,14,1,34,14* FRE,177,,15,1,35,15* FRE, 178, , 16, 1, 36, 16* FRE,179,,17,1,37,17* FRE,180,,18,1,38,18* FRE,181,,A2,1* FREE ATTORNEY CT/NC TO HANDLE AN INJUNCTI FRE,231,,6,1,26,6* *MATCH NODES* MAT, 113, 1, 39/49, 40* MATCH ATTORNEY AND JUDGE FOR A TRIAL MAT,97,1,19/98,20* MATCH ATTORNEY AND JUDGE FOR AN INJUNCTIO MATy186,1,185/183,191/183* MAT, 187, 1, 199/183, 192/183* MAT, 188, 1, 200/183, 193/183* MAT, 189, 1, 201/183, 194/183* MAT, 190, 1, 202/183, 195/183* MAT, 223, 1, 221/183, 222/183* *STATISTICS NUDES* RECORD STATISTICS FOR CIVIL STA, 71/CRIMINAL, 1, 1, 1, 150., 150.,* CRI STA,72/DIV-JUR,1,1,,1,150.,150.,* DIVERSIT STA,73/FED-QUES,1,1,,1,150.,150.,* FEDERAL STA,182/SPD-TRL,1,1,D,I* *SOURCE NODES* SOU, 41>, 1, D* CIVIL/U.S. CASE GENERATION CIVIL/U.S. CASE FRONT END LOADER SOU, 42: 11, A* SOU,43,,1,D* CRIMINAL CASE GENERATION 50U,44,,1,A* CRIMINAL CASE FRONT END LOADER SOU: 45, 11 D* DIVERSITY JURISDICTION GENERATION SOU,467,1,A* DIVERSITY JURISDICTION FRONT END LOADER FEDERAL QUESTION GENERATION SOU,47,,1,D* 500,48,,1,A* FEBERAL QUESTION FRONT END LOADER SOU,203,,1,D* *REGULAR NODES* ' REG,49,1,1,F* REG:50,1,1,F* REG: 51, 1, 1, A* SET JUDGE # AND FREQUENCIES: CIVIL/U.S. REG,52,1,1,D* SET JUDGE # AND FREQUENCIES: FEDERAL QUES SET JUDGE # AND FREQUENCIES: DIVERSITY JU REG, 53, 1, 1, D* REG, 54, 1, 1, D* REG, 55, 1, 1, F* SET TRIAL/NON-TRIAL ATTRIBUTE. REC,55,1,1,F* REG;57,1,1,D* REG, 58, 1, 1, D* ٦ REG, 59, 1, 1, D* REG, 60, 1, 1, D* DECIDE WHICH STAGE THE CASE WILL ENTER. REGy61,1,1,F* ROUTE FINISHED CASE FOR PROPER STATISTICS REG, 62, 1, 1, F* REG, 63, 1, 1, D* EXTERNAL DELAY INJUNCTION REG: 64, 1, 1, D* OTHER COURT (0.C.) REG, 65, 1, 1, D* REG, 66, 1, 1, D* TRIAL BENCH REG, 67, 1, 1, D* TRIAL JURY REG, 68, 1, 1, F* NON-COURTROOM: JUDGE REG; 69, 1, 1, F* NON-COURTROOM: ATTORNEY REG,92,1,1,F* JUDGE ROUTES THE CASE. ATTORNEY ROUTES THE CASE. REG,93,1,1,F* PASSED CASE'S PRIORITY IS INCREASED: JUDG REG,94,1,1,D* REG,95,1,1,D* PASSED CASE'S PRIORITY IS INCREASED: ATTO

REG,96,1,1,D* REG, 98, 1, 1, D* REG, 99, 1, 1, D* REG, 101, 1, 1, F* REG,102,1,1,D* REG, 103, 1, 1, D* REG, 104, 1, 1, D* REG,105,1,1,D* REG, 106, 1, 1, D* REG: 107: 1:1:F* REG, 108, 1, 1, D* REG:109:1:1:D* REG,110,1,1,D* REG:111,1,1,F* REG,112,1,1* REG, 114, 1, 1, D* REGy115,1,1,F* REG, 116, 1, 1, D* REG, 117, 1, 1, D* REG:118:1:1.D* REG:142:1:1:0* REGy143,1,1,D* REG: 144:1,1,A* REG, 145, 1, 1, AX REG: 148:1:1:F* REG:149:1:1:F* REG, 150, 1, 1, P* REG, 151, 1, 1, D* REG:152:1:1:F* REG,153,1,1,1,D* REG: 154: 1, 1, PK REG,155,1,1,D* REG,156,1,1,F米 REC:158,1,1,P* REG,159,1,1,F* REL,160,1,1,A* REG:161:1:1:F* RE-1-162,1,1,F* REPUIGS 1 . L.F.A. REC:164:1:1:P* REG: 167, 1, 1, F* REG:183/2:2/D:/8/10* REG,184,1,1,F* RECッ196,1,1,F* REG, 197, 1, 1, D* RE6,198,1,1,F* RE0,204,1,1,0* RE5,205,1,1,F* RE6,228,1,1,F* EE0,229,1,1,F* ※Eジッ230ッ1ッ1ッD※ *VALUE ASSIGNMENT CARDS* VA8,41,2,UF,1,3,UF,3* VA8+42+1+IN+1+2+UF+1+3+UF+3* VAS:44,1,IN,1* VAS:46:1.TN:1* VA5,48,1,IN,1* VAS:49:11:UF:57* VAS,50,11,UF,5* VAS,52,3,UF,3,4,UF,4* VAS,53,3,UF,3,4,UF,4* VAS, 54, 3, UF, 3, 4, UF, 4* VAS, 55, 11, UF, 29* VAS, 56, 11, UF, 30*

INJUNCTION MANDLED BY JUDGE AND ATTORNEY. INJUNCTION IS FINISHED BY JUDGE AND ATTOR ROUTE JUDGE ONLY CASE. OTHER COURT BY JUDGE ONLY. INJUNCTION BY JUDGE ONLY. TRIAL BY JUDGE ONLY. DECREMENT OTHER COURT FREQUENCY: JUDGE ON DECREMENT INJUNCTION FREQUENCY: JUDGE ONL DECREMENT TRIAL FREQUENCY: JUDGE ONLY.

> REMOVE JUDGE ONLY TRANSACTIONS FROM THE N TRIAL OR OTHER COURT CASE: JUDGE AN

DECREMENT OTHER COURT FREQUENCY: JUDGE AN SET TRIAL IN PROGRESS ATTRIBUTE: JUDGE AN TRIAL COMFLETE: JUDGE AND ATTORNEY. NON-COURTROOM: JUDGE NON-COURTROOM: ATTORNEY DECREMENT NON-COURTROOM FREQUENCY: JUDGE. DECREMENT NON-COURTROOM FREQUENCY: ATTORN

SET ATTORNEY # FOR CIVIL/U.S. CASES. SET ATTORNEY # FOR FEDERAL QUESTIONS CASE SET ATTORNEY # FOR DIVERSITY JURISDICTION CHECK INJUNCTION STATUS FOR JUDGE.

CHECK-INJUNCTION STATUS FOR ATTORNEY. DELAY FOR ATTORNEY DECISION MADE.

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VAS, 57, 6, CU, 0.* VAS,58,6,CD,1.1* VAS, 59, 6, CO, 1.2* VA5,60,1,UF,35* VAS,61,11,UF,6* VAS, 63, 10, UF, 50, 4, UF, 43* VAS, 64, 10, UF, 51* VAS:45,10,UF,52* VAS, 66, 10, UF, 53, 6, UF, 7* VAS+67+10+UF+53+6+UF+8* VAS, 68, 10, UF, 54* VAS, 69, 10, UF, 55* VAS,92,11,UF,9* VAS: 93, 11, UF, 10* VA8, 94, 10, UF, 11* VAS: 95, 10, UF, 12* VAS,98:11,UF,36* VAS,99,5,UF,44,11,UF,13,11,UF,37* VAS,102,11,UF,40* VAS,103,11,UF,40* VAS,104,11,UF,40* VAS,105,7-,CO,1.,11,UF,41,11,CO,6* VAS:106,11,UF,41,5-,C0,1.* VAS:107:6-,CO,1.,11:UF:41* VAE:108:11:UF:14* VAS:109:10,00:7.:11.00,1.* VAS: 110, 11, UF, 15, 11, CO, 2, 6, CO, 0* VAS, 114, 11, UF, 16, 11, UF, 36* VAS,115,11,UF,37,11,UF,17* VAS:116,7,UF,45,11,00,3.* VAS:117,10,UF,56,11,CB,4.* VAS,118,11,UF,18,11,CD,5.,6,UF,46* VAS,142,11,UF,40* VAS+143+11,UF+38* VAS:144.8.UF,47,11,UF,41,11,UF,62* VA5:145.9.UF,48:11.UF,39,11.UF,63* VAS,148,11,UF,84* VAS:149,11,UF:658 UAS+150,2,10F,2% VA5 151,4,UF,33* VAS,152,2,CO,1.8 VA6,153,4,0F,52% V48,154,2,C0,2.* VA:-y155,4,UF,31* VAS,156,11,UF,19* VAS-140,11,00,0.* VAE+161,11,UF,34* VA5,162,11,UF,49* VAR-163,11,UF,20* VAL-182-11-UF+18+11+C0+7.* VAS:204,11,UF,42* VAS+228,11,UF+65* V46,229,11,UF,67* VAS:205:11:UF:58* *ACTIVITY CARDS* ACT: 41, 41, EX, 1* AC1,41,60* ACT:42:42:(9)A1.LE.1* ACT: 42:60* ACT,43,43,EX,2* ACT,43,150* ACT, 44, 44, (9) A1. LE. 1* ACT, 44, 150% ACT,45,45,EX,3* ACT,45,152* ACT:46:46:(9)A1.LE.1* ACT 7457152*

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ACT+47+47+EX+4*		ж	• • • • • •			·
ACT:47:154*	· .					
ACT,48,48,(9)A1.LE.1*	· · · · · · · · · · · · · · · · · · ·	4 ² - 4 - 2				
ACT,48,154* ACT,49,114,(9)A11.EQ.1*		•				1999 - 1999 1999 - 1999
ACT + 49 + 182 + (9) A11 + EQ. 0*						
ACT, 50, 62, (9) A11.EQ.0*		•				
ACT, 50, 161, (9) A11.EQ.1*						
ACT, 51, 74, (9) A3.EQ.1*	COURTROOM	CASE SENT TO JU				
ACT+51+75+(9)A3+EQ.2*	•	•	2.			
ACT,51,76,(9)A3,EQ,3* ACT,51,77,(9)A3,EQ,4*			3.			
ACT:51:78:(9)A3.EQ.5%			5.			
ACT, 51, 79, (9) A3, EQ. 6*	and a second second Second second	· · · ·	· · · · · · ·			
ACT 51 80 (9) A2.EQ.7*						
ACT:51:81:(9)A2.EQ.8*						
ACT,51,82,(9)A2.EQ.9* ACT,51,83,(9)A2.EQ.10*						
AC1+51+84+(9)A2+E0+10#						
ACT:51,85,(9)A2.EQ.12*						
ACT,51,86,(9)A2,ER,13*				`		
ACT,51,87.(9)A2.EQ.14*		•				
ACT,51,88,(9)A2,EQ,15*				4	•	
ACT,51,85,(9)A2.EQ.16* ACT,51,90,(9)A2.EQ.17*						
ACTy51:91:(9)A2.EQ.18*						
ACT:51,224,(9)A2.E0.19*		•				
ACT,51,196,(9)A2.EQ.1*					•	
ACT#51,196,(9)A2,EQ.2*						
ACT+52+55*						
ACT/53,55* ACT/54,55*						
ACT:55:56:(9)A11.EQ.1*	THE CASE 1	IS A TRIAL.		-		
ACT,55,57,(9)A11.EC.0*		IS NON-TRIAL.		. •		
ACT:56,58,(9)A11.EQ.1*	· · · · · · · · · · · ·					
ACT:56,59,(9)A11.EQ.2*	.					
ACT: 57,60*						
AC1+58+60* AC1+59+60*			••			
ACT:/AC/50%	•	•			•	
ACT:61:64:(9)611.EQ.64*	STAGE IS 4	AN INJUNCTION.				
AC1,61,65,(9)A11.EQ.65*		THER COURT (0.C	•) •			
ACT:51,56;(9)A11,EQ:66*	STAGE IS 1	TRIAL BENCH.				
ACT:61:67:(9)A11.E0:67*		RTAL JURY.	r 100, 25 PM 1			
NCT/61/68/(9)611.EQ.68% NCT/61/69/(9)611.EQ.69%		ION-COURTROOM (J				
AC1;51;63;(9)A11,EQ.63*		NON-COURTROOM (A EXTERNAL DELAY (
AC7,61,71,(9)A11,EQ.71*	այլուններ անց ը	առունանչիներին հերանակությել է	n an an an an Anna a' Anna a' A			
AC1:62:20:(6)34:(7)A2.GE.14.*						
AC1;62,72;(9)A2;GE.2*			RSITY JURIS			
ACT:62,73,(9)A2.6E.1*			RAL QUESTIO	NS CA		
ACT:43:50;UF:21*		TERNAL DELAY				
ACT;64;51¥ ACT;65;51*	STAGE = IN STAGE = OT					
ACT: 66:51*	STAGE = TF					
ACT: 67,51*	STAGE = TF					
ACT#68#124#(9)A3+EQ.1*		COM CASE SENT T	O JUDGE 1.			
ACT, 68, 125, (9) A3.EQ. 2*		•	2.	· •		
ACT;68,126,(9)A3.EQ.3*		•	3.			
ACT:48,127,(9)A3.EQ.4*			4.			
ACT:68,128,(9)A3.EQ.5* ACT:68,129,(9)A3.EQ.6*			5.			
ACT y 69 y 130 y (9) A2 + EQ + CA						
CT, 69, 131, (9) A2.EQ.8*						
ACT,69,132,(9)A2.EQ.9*						
ACT, 69, 133, (9) A2.EQ. 10*					•	
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ACT, 69, 134, (9) A2, ER, 11* ACT, 69, 135, (9) A2.EQ. 12* AC1,69,136,(9)A2.E0.13* ACT+69+137+(9)A2.E0.14* ACT, 69, 138, (9) 42.EQ. 15* ACT:69,139,(9)A2.EQ.16* ACT, 69, 140, (9) A2.EQ.17* ACT, 69, 141, (9) A2, EQ, 18* ACT+69+226+(9)A2+EQ.19* ACT,92,74,(9)A11.EQ.1* ACT: 92, 184, (9) A11.EQ.2* ACT,92,39,(9)A11.EQ.3* ACT:92,19;(9)A11.EQ.4* ACT, 93, 20, (9) A11.EQ.4* ACT, 93, 40, (9) A11.EQ.3* ACT, 93, 95, (9) A11, EQ.1* ACT, 94, 146% ACT,95,147* ACT, 96, 93* ACT,98,99,UF,22* ACT, 99, 100* ACT:100:166* ACT:101:102:(9)A10.EQ.3* ACT, 101, 102, (9) A10, EQ. 4* ACT,101,103,(9)A10.EQ.8* ACT, 101, 103, (9) A10, EQ.9* ACT:101,104,(9)A10.EQ.5* ACT, 101, 104, (9) A10.E8.6* ACT:101,104,(9)A10.EQ.7* ACT,102,105,UF,23# ACT: 103: 106: UF: 24* ACT:104:107:UF:25* ACT = 105 - 156* ACT / 106 / 108* ACT = 107 = 110 = (9) A8.EQ.1000* ACT, 107, 110, (9) A6.E0.2000* AC1,107,109* ACT:108:165* ACT: 109,51% ACT:109,156* ACT:110,50* ACT:110:156* ACT/111/112/(9)A11.EQ.-6* ACT, 111, 112, (9) A11.EG,-2* ACT:111/112,(9)A11.EQ.-1* ACT:111,112,(9)A11.EQ.0* ACT:111:112:(9)A11:EQ:1* ACT, 111, 112, (9) A11.EQ.2* ACT-111,163* ACT:114,115,UF:26* ACT/115/116/(9)A10.EQ.3* ACT = 115 + 116 + (9) A10 + EQ + 4* ACT#115#116#(9)A10.EQ.9.* ACT -115+118+(9)A6.ER.1000* ACTy115,118,(9)A6.E0,2000* ACT+115,117* ACT #116,50% ACT:116,156* ACT 117,51* ACT,117,156* ACT,118,50* ACT,118,156* ACT,119,111* ACT, 120, 111* ACT, 121, 111* ACTy122,111***

JUDGE: PASS THE CASE.

JUDGE: TRIAL B/J, AND O.C. JUDGE (COURTROOM): INJUNCTION ATTORNEY (COURTROOM): INJUNCTION ATTORNEY (COURTROOM): TRIAL B/J OR ATTORNEY (COURTROOM): PASS THE CASE FREE THE JUDGE AND PASS THE CASE. FREE THE ATTORNEY AND PASS THE CASE.

INJUNCTION DURATION: JUDGE/ATTORNEY. FREE JUDGE AFTER JUDGE/ATTORNEY INJUNCTIO FREE ATTORNEY AFTER JUDGE/ATTORNEY INJUNC JUDGE (PRIVATE) 0.C.

JUDGE (PRIVATE) INJUNCTION.

JUDGE (PRIVATE) TRIAL B/B.

DURATION JUDGE (PRIVATE) 0.C. INJUNCTION. TRIAL B/J.

FREE JUDGE AFTER PRIVATE 0.C.

TRIAL IS FINISHED. TRIAL IS FINISHED.

FREE JUDGE AFTER PRIVATE INJUNCTION. RETURN CASE FOR THE NEXT TRIAL EPISODE. FREE JUDGE AFTER PRIVATE TRIAL B/J. RETURN CASE FOR NEXT STAGE. FREE JUDGE AFTER PRIVATE TRIAL B/J.

DO NOT FREE ATTORNEY FOR PRIVATE CASES.

FREE ATTORNEY. DURATION OF TRIAL B/J AND D.C. J/A CT.

RETURN CASE FOR THE NEXT TRIAL EPISODE. FREE JUDGE AND ATTORNEY. RETURN CASE FOR THE NEXT STAGE. FREE JUDGE AND ATTORNEY.

DURATION FOR NON-COURTROOM CASE: JUDGE. DURATION FOR NON-COURTROOM CASE: ATTORNEY FREE JUDGE. FREE ATTORNEY. JUDGE 1: RETURN PASSED/DELAYED CASE. 2 3
DURATION FOR NON-COURTROOM CASE: ATTORNEY FREE JUDGE. FREE ATTORNEY. JUDGE 1: RETURN PASSED/DELAYED CASE. 2
DURATION FOR NON-COURTROOM CASE: ATTORNEY FREE JUDGE. FREE ATTORNEY. JUDGE 1: RETURN PASSED/DELAYED CASE. 2
FREE JUDGE. FREE ATTORNEY. JUDGE 1: RETURN PASSED/DELAYED CASE. 2
FREE ATTORNEY. JUDGE 1: RETURN PASSED/DELAYED CASE. 2
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CIVIL/U.S. CASE: NO JUDGE REQUIRED.
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FEDERAL QUESTIONS CASE: NO JUDGE RE
DIVERSITY JURISDICTION CASE: NO JUD
JUDGE IS REQUIRED FOR INJUNCTION.
JUDGE IS FINISHED WITH PRIVATE CASE.
JUDGE IS FINISHED WITH PUBLIC CASE.
IN THE MIDDLE OF A CASE.
DELAY FOR JUDGE AFTER FINISHING A
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FREE JUDGE 1.
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ATTORNEY IS REQUIRED FOR AN INJUNCTION.
ATTORNEY IS FINISHED WITH A CASE.
ATTORNEY IS IN THE MIDDLE OF A CASE.
րլը լատերչըչկանը՝ տեստի տեղը, էլլիտ, քլտետեղեներիա, հավել ԲՂ հավք]անիտ է։ Հեշ թե տար։

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	ACT,	164	19	1,0	F 🤊	60	124	4,	(8)).,	000)1*	
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	ACT,	165	, 50	* 1									
	ACT,	121	- 50	Ψ									
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	ACT	167	,17	0,, (951	A2.	. Fí	э.	8 *				
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FORTRAN Listing

SURROUTINE UI BJU00010 COMMON /NODAL/ ID, IM, IMM, LSINK(250), MFA, MFE(250), MFEB(250), MX, BJU00020 1MXX, NDCH(250,2), NDFT(250), NN, NDR, NSIGN(250), NTYFE(250), LABLN B1000030 2(120,2) BJU00040 COMMON /FILES/ NSET(3500),NNVNT(20000),MFEE,MFAE,MMID,MLEE,JJFTR, BJU00050 1JJPAC, EEVTI BUDOOORO DIMENSION QSET(3500), EEVNT(20000) BJU00070 EQUIVALENCE (NSET(1), QSET(1)), (NNVNT(1), EEVNT(1)) B100080 COMMON /HXDIM/ MXABA, MXCEL, HXNOD, MXNFO, MXFAR, MXQUE, MXSOU, MXSTA, MXTBJU00090 1RS, MXVAS, MAXDS, MXNS2, MXNTR, MXSER, MXSTR, RMXVA, MXEVT BJ000100 COMMON /STRAC/ KTRAC, NPRNT3, NNPTS, KTRCE, KTRCS, NTBTR(50) BJU00110 COMMON /GENL/ IFIN, IFRST, ISMRY, ITRAC, LISTBO, MON, NAME(12), NCRDR, NDAEJU00120 *Y,NNM,NPRNT,NPROJ(12),NSORC(20),NTRCS,NTRCE,NSRC,NYR,TTFIN BJU00130 COMMON /UCOM1/ ICRT(19), INJ(19), KFLAG(6), KATH BJU00140 COMMON /QVAR/ NDE,NFTBU(250),NREL(250),NRELP(250),NREL2(250), BJU00150 %NRUN,NRUNS,NTC(250),PARAM(100,4),TBEG,TNOW BJU00160 COMMON/CRMNL/NFOLW(15), UFA(15), IEPSD(15), IATTR(15), NBRNCH(25), BJU00170 ж NEXTS(25,6), PNEXT(25,6), IDRTN(7), PCINJ(15), PCEXD(15), BJU00180 IACOL(15), ISCOL(15), SPEED(15), RLSE, BAIL, PMDTR(5) * BJU00190 COMMON/CMNLF/NJ,NACR,NACV,BETAJ,BETAR,BETAV,WTKNJ,WTMXJ,WTMNR,WTNXBJU00200 1R,WTMNV,WTMXV,NOCSJ,NOCSV,NOCSV,NCSJ,NCSAR,NCSAV,STT,CDJ,CDA,DIJ,DBJU00210 2IA,PC,PF,PD,PJD,PAD,PEDC,PEDF,PEDD,PIV,PIF,PID,PTV,PBTV,FTF,PBTF,PBJU00220 3TD; PBTD; PFC; T(9); IQT(9); U(19); HOLD(4,2); ST(19); CSTAT(6) BJU00230 COMMON /TRANS/ DESCR(63000),KNOD,MFAD,NDFTR,NDSTR(1300) BJU00240 DIMENSION XDSTR(1200) + NESCR(63000) BJU00250 EQUIVALENCE (NESCR(1), DESCR(1)), (XDSTR(1), NDSTR(1)) BJU00260 INTEGER STAR BJU00270 DATA STAR/18*/ BJU00280 EIMENSION ICOM(4), NA(3) BJU00290 KATH=0 BJU00300 20 1 I=1,19 BJU00310 ST(I)=0.0 1 BJU00320 LO 2 1=1,6 BJU00330 CETAT(I)=0.0 2 BJU00340 20 3 7 = 1,19 BJU00350 (CRT(1)=0 BJU00360 3 1NJ(I)=0 BJU00370 DO 4 I=1,6 BJU00380 KFLAG(I)=0 2 BJU00390 (F(NSUN.GT.1) GO TO 2500 BJU00400 20 5 1=1:19 BJU00410 5 U(I)=0.0 . BJU00420 UU 6 I=1+4 BJU00430 10 6 J=1,2 BJU00440 Ċ HOLD(I,J)=0.0 BJU00450 BJU00460 C READ DATA TO DEFINE CRIMINAL CASE STRUCTURE BJU00470 BJU00480 BJU00490 10 READ(5,110)(ICOM(I),I=1,4),(NFOLW(J),J=1,14) 110 FORMAT(A1,3A3,14I4) BJU00500 (F(ICOM(1).EQ.STAR) GO TO 10 BJU00510 15 READ(5,115)(ICOM(I),I=1,4),(UFA(J),J=1,14) BJU00520 115 FORMAT(A1,3A3,14F4,1) BJU00530 1F(ICOM(1).EQ.STAR)G0 T0 15
20 READ(5,110)(ICOM(1),I=1,4),(IEPSD(.),J=1,14) BJU00540 BJU00550 IF(ICOh(1).EQ.STAR)GO TO 20 9,000560 25 READ(5,110)(ICON(I),I=1,4),(IATTR(J),J=1,14) BJU00570 IF(ICOM(1).EQ.STAR)GO TO 25 BJ000580 30 READ(5,130)(ICOM(I),I=1,4),(NBRNCH(J),J=1,24) BJU00590 130 FORMAT(A1, 3A3, 2412) BJU00600 IF(ICOM(1).EQ.STAR)GO TO 30 BJU00610 10 40 I=1,24 BJU00620 NB=NBRNCH(I) BJU00630 35 READ(5,135)(ICOM(K),K=1,4),(NEXTS(I,J),J=1,NB) BJU00640 135 FORMAT(A1,3A3,615) BJU00650 IF(ICOM(1),EQ.STAR)GO TO 35 BJU00660 40 CONTINUE BJU00670 45 READ(5,145)(ICOM(I),I=1,4),(IDRTN(J),J=1,7) BJ000980 145 FORMAT(A1,3A3,715) BJU00690 IF(ICOM(1).EQ.STAR)GO TO 45 BJU00700 50 READ(5,150)(ICOM(I),I=1,4),(SPEED(J),J=1,14) BJU00710 150 FORMAT(A1,3A3,14F4.1) BJU00720 IF(ICOM(1).EQ.STAR)60 TO 50 BJU00730

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		 A second sec second second sec	
C C		BEGIN USER DATA INPUT - FIRST READ ECHO CHECK PARAMETER	BJU00740 BJU00750
ē			BJU00760
		READ(5,200)(ICOM(I),I=1,4),IECHO	BJU00770
	200	FORMAT(A1,3A3,15) IF(ICOM(1),EQ.STAR)GO TO 99	BJU00780 BJU00790
С			BJ000200
č		BEGIN CRIMINAL CASE INPUT - CASE STRUCTURE	BJU00810
C			BJU00820
	~~~	IF(IECHO.EQ.1)WRITE(6,300)	BJU00830
4		FORMAT(1H1,5H*****,5X,26HUSER ECHO CHECK SUPPRESSED,5X,5H****) READ(5,165)(ICOM(I),I=1,4),(PCINJ(J),J=1,14)	BJU00840 BJU00850
	165	FORMAT(A1, 3A3, 14F5.2)	BJU00860
		FORMAT(A1,3A3,14F5.2) IF(ICOM(1).EQ.STAR)GO TO 65 READ(5,165)(ICOM(I),I=1,4),(PCEXD(J),J=1,14) IF(ICOM(1).EQ.STAR)GO TO 70 READ(5,175)(ICOM(I),I=1,4),RLSE,BAIL,(PMDTR(I),I=1,5) FORMAT(A1,3A3,7F5.2) IF(ICOM(1).EQ.STAR)GO TO 75 DEFINE PROBABLLITIES FOR DECISION POINTS	BJU00870
	70	READ(5,165)(ICOM(I),I=1,4),(PCEXD(J),J=1,14)	B100880
	75	IF(ICOM(1).ER.STAR)60 TO 70 READ(5.175)(ICOM(I).T-1.4).R(RE.RATL.(RMDTR(I).T-1.5)	BJU00890 BJU00900
	175	FORMAT(A1,3A3,7F5.2)	BJU00910
		IF(ICOM(1).EQ.STAR)GO TO 75	BJU00920
С			BJU00930
C C		DEFINE PROBABILITIES FOR DECISION POINTS	BJU00940 BJU00950
L		10 90 T=1.24	BJU00930
		DO 90 I=1,24 NB=NBRNCH(I) READ(5,180)(ICOM(K),K=1,4),(PNEXT(I,J),J=1,NB) FORMAT(A1,3A3,6F5.2) IF(ICOM(1),ER,STAR)GD TO 80	BJU00970
	80	READ(5,180)(ICOM(K),K=1,4),(PNEXT(I,J),J=1,NB)	BJU00980
	180	FORMAT(A1,3A3,6F5.2)	BJU00990
			BJU01000 BJU01010
С			BJU01020
С		READ SIMULATION PARAMETERS	BJU01030
С	~~~		BJU01040
	200	TORMAT(A1, XAX, 265, 2, 15)	BJU01050 BJU01060
	000	IF(ICOM(1).ER.STAR)GO TO 260	BJU01070
С			BJU01080
С С		CONTINUE READ SIMULATION PARAMETERS READ(5,360)(ICOM(I),I=1,4),TBEG,TTFIN,NRUNS TORMAT(A1,3A3,2F5.2,I5) IF(ICOM(1).EQ.STAR)GO TO 260 SET UP USER STATISTICS CLEARING ACTIVITY	BJU01090 BJU01100
5		IF(TBEG.LE.0.) GU TO 3600	BJU01100
		EEVII=TBEG	BJU01120
		JJPAC=-1-MXNOD	BJU01130
-	1200	CALL SEVNT	BJU01140 BJU01150
-	sαvv	NEXT=hFE(203)	BJU01160
		NGMOD-NSET(NEXT+1)	BJU01170
		IF(NDMOD.EQ.204)60 TO 261	BJU01180
		NEXT=NSET(NEXT) NDMOD=NSET(NEXT+1)	BJU01190 BJU01200
		IF(NDMOD.NE.204)CALL ERROR(629)	BJU01210
	261	QSET(NEXT+2)=TBEG	BJU01220
C		7 19. 1977 - 19. 1. 20. 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 19777 - 1977 - 1977 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 19777 - 1977	BJU01230
С С		BEGIN SYSTEM PARAMETERS - INFUT	BJU01240 BJU01250
6	201	READ(5,301)(ICOM(I),I=1,4),NJ,NACR,NACV	BJU01260
		FUEMAT(A1,3A3,3I5)	BJU01270
		IF(ICOM(1).EQ.STAR)GO TO 201 IF(NJ.GT.6)CALL-ERROR(601)	BJU01280
		NTOT=NACR+NACV	BJU01300
		IF(NTOT.GT.13)CALL ERROR(602)	BJU01310
		FARAM(70,1)=0.	BJU01320
		PARAM(70,2)=7.	BJU01330
		PARAM(70,3)=7+NACR PARAM(70,4)=0.	BJU01340 BJU01350
		PARAM(71,1)=0.	BJU01360
		PARAM(71,2)=20-NACV	BJU01370
		PARAM(71,3)=20. PARAM(71,4)=0.	BJU01380 BJU01390 BJU01400
		PARAM(72,1)=0.	BJU01400
		PARAN(72,2)=1.	BJU01410
		PARAM(72,3)=NJ+1	BJU01420
	. 209	PARAM(72,4)=0. READ(5;302)(ICOM(I),I=1,4),BETAJ,BETAR,BETAV	BJU01430 BJU01440
	302		BJU01450
		IF(ICOM(1).ER.STAR)GO TO 202	BJU01460
		READ(5,303)(ICOM(I),I=1,4),WTMNJ,WTMXJ,WTMNR,WIMXR,WIMNV,WIMXV	BJU01470 BJU01480
• •	203	FDRMAT(A1,3A3,6F5.2)	10001400

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		IF(ICON(1).ER.STAR)GO TO 203 IF(WTMXJ.LT.WTMNJ)CALL ERROR(603) IF(WTMXR.LT.WTMNR)CALL ERROR(604) IF(WTMXV.LT.WTMNV)CALL ERROR(605) READ(5,304)(ICOM(I),I=1,4),NOCSJ,NOCSR,NOCSV,NCSJ,NCSAR,NCSAV	EJU01490
2		IF(WTMXJ.LY.WTMNJ)CALL ERROR(603)	BJU01500
		IF(WTMXR.LT.WTMNR)CALL ERROR(604)	EJU01510
			BJU01520
	204	READ(5,304)(ICOM(I),I=1,4),NOCSJ,NOCSR,NOCSV,NCSJ,NCSAR,NCSAV	BJU01530
	304	FORMAT(A1,3A3,615)	BJU01540
	205	FORMAT(A1,3A3,6I5) IF(ICOM(1).EQ.STAR)GO TO 204 READ(5,305)(ICOM(1),I=1,4),STT	BJU01550
	205	TORMATIA1.747_EE 0	BJUVIJOV
	000	F(T,T) = F(T,T)	BU01520
	206	READ(5,304)(TCOM(T),T=1.4).CD.(.CD4.DT.(.DTA	B.0001500
	305	FORMAT(A1,3A3,4F5.2)	BJU01600
		IF(ICOM(1),EQ,STAR)GO TO 206	BJU01610
	207	READ(5;307)(ICOM(I);I=1;4);PC;PF;PD	BJU01620
	307	FORMAT(A1,3A3,3F5.2)	BJU01630
	000	IF(ICOM(1),EQ,STAR)GO TO 207	BJU01640
	208	READ(5,308)(100M(1),1=1,4),PJD;PAD	BJU01650
	200	FURPRIAL (AL) (AL) (AL) (AL) (AL) (AL) (AL) (A	E1001920
	209	READ(5,309)(TCOM(T),T=1.4).PEDC.PEDE.PEDD	BJU01670
	309	FORMAT(A1,3A3,3E5.2)	B.JU01690
		IF(ICOM(1),EQ,STAR)GO TO 209	BJU01700
	210	READ(5,310)(ICOM(I),I=1,4),PIV,PIF,PID	BJU01710
	310	FORMAT(A1,3A3,3F5,2)	BJU01720
		IF(ICOM(1).EQ.STAR)GO TO 210	BJU01730
	211	READ(5,311)(ICOM(I),I=1,4),PTV,PBTV,PTF,PBTF,PTD,PBTD	EJU01740
	311	FURMAI(A1,3A3,6F3,2) TE(TERM(1) FO ETABLED TO 211	BJU01750
	010	TF(1000(1)+E(+5198)00 10 211 DECN(1)-E(+5198)10 1-1-4-200	E U01720
	312		B.0001770
		IF(ICOM(1),EQ.STAR)60 TO 212	BJU01790
C			BJU01800
Ċ		BEGIN CRIMINAL PARAMETERS - INPUT	BJU01810
С			BJU01820
	213	READ(5,313)(ICOM(I),I=1,4),(PARAM(1,J),J=1,4)	BJU01830
	د ا ت	<pre>READ(5,304)(ICOM(1),I=1,4),NOCSJ,NOCSR,NOCSV,NCSJ,NCSAR,NCSAV FORMAT(A1,303,615) IF(ICOM(1).EU.STAR)GO TO 204 READ(5,305)(ICOM(1),I=1,4),STT FORMAT(A1,303,F5.2) IF(ICOM(1).EU.STAR)GO TO 205 READ(5,304)(ICOM(1),I=1,4),CDJ,CDA,DIJ,DIA FORMAT(A1,303,4F5.2) IF(ICOM(1).EU.STAR)GO TO 206 READ(5,307)(ICOM(1),I=1,4),PC,FF,FD FORMAT(A1,303,3F5.2) IF(ICOM(1).EU.STAR)GO TO 207 READ(5,308)(ICOM(1),I=1,4),PJD,PAD FORMAT(A1,303,2,5.2) IF(ICOM(1).EU.STAR)GO TO 208 READ(5,309)(ICOM(1),I=1,4),PEDC,PEDF,PEDD FORMAT(A1,303,3F5.2) IF(ICOM(1).EU.STAR)GO TO 209 READ(5,310)(ICOM(1),I=1,4),PIV,PIF,PID FORMAT(A1,303,3F5.2) IF(ICOM(1).EU.STAR)GO TO 210 READ(5,311)(ICOM(1),I=1,4),PTV,PBTV,PTF,PBTF,PTD,PBTD FORMAT(A1,303,6F5.2) IF(ICOM(1).EU.STAR)GO TO 211 READ(5,312)(ICOM(1),I=1,4),PFC FURMAT(A1,303,F5.2) IF(ICOM(1).EU.STAR)GO TO 212 BEGIN CRIMINAL PARAMETERS - INPUT READ(5,313)(ICOM(1),I=1,4),(PARAM(1,J),J=1,4) FORMAT(A1,303,4F5.2) IF(ICOM(1).EU.STAR)GO TO 213 READ(5,314)(ICOM(1),I=1,4),(PARAM(38,J),J=1,4) FORMAT(A1,303,4F5.2) IF(ICOM(1).EU.STAR)GO TO 214 EEGIN(1).EU.STAR)GO TO</pre>	EJU01840
	0.5.0	16 YIGUNYIYADAYINGANYIN TALAN KANANYING IN LALAN	D 1001010
	314	FERMAT(A1,3AT,4E5,2)	B.1001870
		IF(ICOM(1),EQ.STAR)GO TO 214	BJU01880
	215	<pre>ELED(5:315)(ICOM(I),I=1:4),(PARAM(28,J):J=1:4),(PARAM(48,K):K=1:4)</pre>	BJU01890
	315	LOVINI (UTADHOADHÓ*7)	BJU01900
			BJU01910
		READ(5,316)(ICOM(I),I=1,4),(PARAM(32,J),J=1,4),(PARAM(49,K),K=1,4)	
	210		BJU01930 BJU01940
	217	READ(5,317)(ICOM(I),I=1,4),(PARAM(18,J),J=1,4),(PARAM(52,K),K=1,4)	
		FGRMAT(A1,3A3,8F5.2)	BJU01960
			BJU01970
	218	READ(5,318)(ICOM(I),I=1,4),(FARAM(16,J),J=1,4)	BJU01980
	318	FURMAT(A1,3A3,4F5,2)	BJU01990
	1	· · · · · · · · · · · · · · · · · · ·	BJU02000
			BJU02010
	319		BJU02020 BJU02030
	0.24		BJU02040
			BJU02050
		IF(ICOM(1).EQ.STAR)GO TO 221	BJU02040
	220	READ(5,320)(ICOM(I),I=1,4),(PARAM(6,J),J=1,4)	BJU02070
· .	320		BJU02086
			BJU02090
			BJU02100
	<u>ئە ئە تە</u>		BJU02110 BJU02120
	227		BJU02120
			BJU02140
		IF(ICOM(1).EQ.STAR)GO TO 223	BJU02150
		READ(5,324)(ICOM(I),I=1,4),(FARAM(20,J),J=1,4)	BJU02160
		FORMAT(A1,3A3,4F5.2)	BJU02170
			BJU02180
			BJU02190
	ు∠హ		BJU02200 BJU02210
	224	READ(5,326)(ICOM(I),I=1,4),(PARAM(19,J),J=1,4),(PARAM(66,K),K=1,4)	
			BJU02230
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		<pre>IF(ICOM(1).EQ.STAR)GO TO 226 READ(5,327)(ICOM(I),I=1,4),(PARAM(68,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 227 READ(5,328)(ICOM(I),I=1,4),(PARAM(69,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 228 READ(5,329)(ICOM(I),I=1,4),(PARAM(36,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 229 BEGIN CIVIL PARMETERS - INPUT READ(5,330)(ICOM(I),I=1,4),(PARAM(2,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 230 READ(5,331)(ICOM(I),I=1,4),(PARAM(22,J),J=1,4),(PARAM(39,K),K=1,4) FORMAT(A1,3A3,8F5.2)</pre>	
		IF(ICOM(1),EQ.STAR)GO TO 226	BJU02240
	227	READ(5,327)(ICOM(I),I=1,4),(PARAM(68,J),J=1,4)	BJU02250
	327	FORMAT(A1,3A3,4F5.2)	B.11102260
		TE(ICON(1), EQ, STAE)GO TO 227	B.102270
	228		8 1002280
•	200		B 1102200
	020	FO(F) = F(F) =	5 1102200
	000	IF (ICUM(I)+EU+STAK/GU TO 228	50002300
	227	READ(3;329)(100m(1);1=1;4);(PARAM(36;3);J=1;4)	80002310
	329	FURMAI(A1,3A3,4F5,2)	BJU02320
		IF(ICOM(1),EQ,STAR)GO TO 229	B3005330
C			BJU02340
С		BEGIN CIVIL PARMETERS - INPUT	BJU02350
С			BJU02360
	230	READ(5,330)(ICOM(I),I=1,4),(PARAM(2,J),J=1,4)	BJU02370
	330	FORMÁT(A1,3A3,4F5.2)	BJU02380
		IF(ICOM(1),EQ,STAR)GO TO 230	BJU02390
	231	READ(5,331)(ICOM(I),I=1,4),(PARAM(22,J),J=1,4),(PARAM(39,K),K=1,4)	BJU02400
	331	FORMAT(A1,3A3,8F5.2)	BJU02410
		IF(ICOM(1).ER.STAR)GO TO 231	BJU02420
	232		BJU02430
		READ(5,332)(1COM(1),1=1,4),(PARAM(29,J),J=1,4),(PARAM(50,R),R=1,4) FORMAT(A1,3A3,8F5.2) IF(ICOM(1).EQ.STAR)GO TO 232	BJU02440
		IF(ICOM(1),EQ,STAR)GO TO 232	BJU02450
	277	READ(5,333)(ICOM(I),I=1,4),(PARAM(33,J),J=1,4),(PARAM(51,K),K=1,4)	B.102460
	333	TOPMAT(A1.3A3.9F5.2)	B.102470
	000	TECTOR(1) ED CADICA TO $273$	B 1002480
		FCRMAT(A1,3A3,8F5.2) IF(ICOM(1),EQ.STAR)GO TO 233 READ(5,334)(ICOM(I),I=1,4),(PARAM(23,J),J=1,4),(PARAM(53,K),K=1,4)	D 1107400
	777	REALASSA/ (ICON(I))III/I/I/I/REALSS/J//S-I/4//(IRAAASSA////////////////////////////////	R 1002500
	ومدرين	FORMAT(A1,3A3,8F5.2) IF(ICOM(1).EQ.STAR)GO TO 234 READ(5,335)(ICOM(I),I=1,4),(PARAM(24,J),J=1,4),(PARAM(57,K),K=1,4)	BUU02510
	070	TEXTLORATIVEDASTARYDU TU 204	00002010
	200	READ(3/333)(100M(1),1=1,4),(PARAM(24,3),J=1,4),(PARAM(3/,K),R=1,4)	50002020
	చినిచి	FORMAT(A1,3A3,8F5.2)	BJU02330
		1F(1COM(1).EU.STAR)GO TO 235	BJU02540
	235	. EAU(5,336)(ICUM(I),I=1,4),(PARAM(25,3),J=1,4)	BJU02550
	334	FURMAT(A1,3A3,4F5,2)	BJU02560
		IF(ICOM(1),EQ,STAR)GO TO 236	BJU02570
	237	READ(5,337)(ICOM(I),I=1,4),(PARAM(64,J),J=1,4)	BJU02580
	337	FORMAT(A1,3A3,4F5.2)	80002590
		<pre>READ(5,335)(ICOM(I),I=1,4),(PARAM(24,J),J=1,4),(PARAM(57,K),K=1,4) FORMAT(A1,3A3,9F5.2) IF(ICOM(I).EQ.STAR)GO TO 235EAD(5,336)(ICOM(I),I=1,4),(PARAM(25,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(I).EQ.STAR)GO TO 237 READ(5,337)(ICOM(I),I=1,4),(PARAM(64,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(I).EQ.STAR)GO TO 238 READ(5,339)(ICOM(I),I=1,4),(PARAM(59,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(I).EQ.STAR)GO TO 238 READ(5,339)(ICOM(I),I=1,4),(PARAM(21,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(I).EQ.STAR)GO TO 239 READ(5,340)(ICOM(I),I=1,4),(PARAM(62,J),J=1,4) FORMAT(A1,3A3,4F5.2) If(ICOM(I).EQ.STAR)GO TO 240 READ(5,341)(ICOM(I),I=1,4),(PARAM(37,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 240 READ(5,341)(ICOM(I),I=1,4),(PARAM(37,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 241 </pre>	BJU02600
	238	READ(5,338)(ICOM(I),I=1,4),(PARAM(59,J),J=1,4)	BJU02610
	338	FORMAT(A1,3A3,4F5.2)	BJU02620
		IF(ICCH(1),EQ,STAR)GO TO 238	BJU02630
	2.7	Relog(5,339)(ICOM(I),I=1,4),(PARAM(21,J),J=1,4)	BJU02640
	239	F0KM61(A1,3A3,4F5,2)	B0002650
		IF(ICOM(1),EU,STAR)G0 10 239	80002660
	260	READ(5, 340)(1CUM(1), 1=1, 4), (PARAM(62, J), J=1, 4)	80005810
	340	FURMA1(A1,3A3,4F5.2)	80002680
		1) (1CUA(1),EQ.STAR)GU (U 240	BJ002690
	241	$R_{LAB}(5,341)(1CUM(1),1=1,4),(PARAM(37,J),J=1,4)$	B3002700
	241	FORMAT(A1,3A3,4F5.2)	BJU02/10
_		IF(ICOM(I),EQ.STAR)GO TO 241	BJU02720
С			BJU02730
Ľ		BEDIN FEDERAL QUESTION PARAMETERS - INFUT	80002740
С			BJU02750
			BJU02760
	342	FORMAT(A1,3A3,4F5,2)	BJU02770
		16(1608(1)+EQ.5(AN)00 (0 242	BJU02780
	243	READ(0)343)(IUUA(I))I=I)4))(PARAA(B)U))U=I)4))(PARAA(A))	
	343		BJU02800
			BJU02810
	244	READ(5,344)(ICOM(I),I=1,4),(PARAM(26,J),J=1,4),(PARAM(44,K),K=1,4)	BJU02820
	344	FORMAT(A1,3A3,8F5,2)	BJU02830
		IF(ICOM(1),EQ,STAR)GO TO 244	BJU02840
	245	READ(5,345)(ICOM(I),I=1,4),(PARAM(30,J),J=1,4),(PARAM(45,K),K=1,4)	BJU02850
	345	FURMAT(A1,3A3,8F5,2)	BJU02860
		IF(ICOM(1).ER.STAR)GO TO 245	BJU02870
	246	READ(5,346)(ICOM(I),I=1,4),(PARAM(9,J),J=1,4),(PARAM(40,K),K=1,4)	BJU02880
		FORMAT(A1,3A3,8F5.2)	BJU02890
		IF(ICOM(1).EQ.STAR)GO TO 246	BJU02900
	247	READ(5,347)(ICOM(I))I=1,4),(PARAM(10,J),J=1,4),(PARAM(54,K),K=1,4)	BJU02910
		FORMAT(A1, 3A3, 8F5.2)	BJU02920
	. •	IF(ICOM(1).EQ.STAR)GO TO 247	BJU02930
	248	READ(5,348)(ICOH(I),I=1,4),(PARAm(7,J),J=1,4)	BJU02940
			BJU02950
		IF(ICOM(1).EQ.STAR)GO TO 248	BJU02960
		na ana ana ana ana ana ana ana ana ana	

	249	READ(5,349)(ICOM(I),I=1,4),(FARAM(61,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 249 READ(5,350)(ICOM(I),I=1,4),(FARAM(34,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 250	BJU02970
1.00	349	FORMAT(A1,3A3,4F5.2)	BJU02980
		IF(ICOM(1),EQ.STAR)GO TO 249	BJU02990
	250	READ(5,350)(ICOM(I),I=1,4),(PARAM(34,J),J=1,4)	BJU03000
•	350	FORMAT(A1,3A3,4F5.2)	R.JU03010
		IF(ICOM(1),EG,STAR)60 TO 250	BJU03020
С		READ(5,350)(ICOM(I),I=1,4),(PARAM(34,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GD TO 250 BEGIN DIVERSITY JURISDICTION PARAMETERS - INPUT READ(5,351)(ICOM(I),I=1.4).(PARAM(4,1),I=1.4)	BJU03030
C		BEGIN DIVERSITY HIRISDICTION PARAMETERS - INPUT	B.103040
C			B.103050
. T.	251	READ(5,351)(ICOM(I),I=1,4),(PARAM(4,J),J=1,4)	BJU03060
	351	READ(5,350)(1COM(1),1=1,4),(PARAM(34,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 250 BEGIN DIVERSITY JURISDICTION PARAMETERS - INPUT READ(5,351)(ICOM(I),I=1,4),(PARAM(4,J),J=1,4) FORMAT(A1,3A3,4F5.2) IF(ICOM(1).EQ.STAR)GO TO 251	BJU03070
· .		IF(ICOM(1).ER.STAR)G0 TO 251	BJU03080
1 A.	252	READ(5,352)(ICOM(I),I=1,4),(PARAM(12,J),J=1,4),(PARAM(43,K),K=1,4)	
	352	EDEMAT(A).362.9F5.2)	B.1003100
		FORMAT(A1,3A3,8F5.2) IF(ICOM(1).EQ.STAR)GO TO 252 READ(5,353)(ICOM(I),I=1,4),(PARAM(27,J),J=1,4),(PARAM(46,K),K=1,4)	B.0000100
	253	$\mathbf{F}$ (a) ( $\mathbf{F}$ )	NB 1003120
	353	FORMAT(A1, 3A3, 8F5.2)	RJU03130
		1+(1COM(1).EQ.STAR)GO TO 253	BJU03140
	254	READ(5,354)(ICOM(I),I=1,4),(PARAM(31,J),J=1,4),(PARAM(47,K),K=1,4)	
		FORMAT(A1,3A3,8F5.2)	BJU03160
		IF(ICOM(1).EQ.STAR)60 TO 254	BJU03170
	255	REAB(5,355)(ICOM(I),I=1,4),(PARAM(13,3),J=1,4),(PARAM(41,K),K=1,4)	
			BJU03190
	666	IF(ICOM(1).EQ.STAR)GO TO 255	BJU03200
	254	READ(5,356)(ICOM(I),I=1,4),(PARAM(14,J),J=1,4),(PARAM(55,K),K=1,4)	
		FORMAT(A1,3A3,8F5.2)	BJU03220
	200	IF(ICOM(1).EQ.STAR)GO TO 256	BJU03230
	257	READ(5,357)(ICOM(I),I=1,4),(PARAM(67,J),J=1,4)	BJU03240
		FORMAT(A1,3A3,4F5.2)	BJU03250
	1007	IT(ICOH(1).EQ.STAR)GO TO 257	BJU03260
	050	READ(5/358)(ICOM(I),I=1,4)/(PARAM(60,J),J=1,4)	BJU03270
		remat(A1,3A3,4F5.2)	BJU03280
	000	IF(ICOM(1).EQ.STAR)G0 TO 258	BJU03290
	->>:0	RLAD(5,359)(ICOM(I),I=1,4),(PARAM(35,J),J=1,4)	BJU03300
		VerMAT(A1,3A3,4F5.2)	BJU03310
	201	IF (ICOM(1).EQ.ST\R)GO TO 259	BJU03320
С			BJU03330
C		ATTAC SUPPORTED ALLANCE PARAMETERS AND SET US ACTINETY SUBATIONS	100000000
			5 1107740
- r-		READ INTERCURRENT CHANGE PARAMETERS AND SET UP ACTIVITY DURATIONS	
C		READ INTERCORRENT CHANGE PARAMETERS AND SET OF ACTIVITY DURATIONS	BJU03350
C	203	<pre>ALAD(5:363)(ICOM(I),I=1,4),TFIC,TSIC</pre>	BJU03350 BJU03360
C	203	<pre>ALAD(5:363)(ICOM(I),I=1,4),TFIC,TSIC furmat(A1,3A3,2F5.2) IF(ICOM(I),E0.STAR)50 TO 243</pre>	BJU03350 BJU03360 BJU03370
- 1- - -	263 755	<pre>ALAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.cAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.cAMAT(A1;3A3;2F5:2) IF(ICOM(I):EQ.STAR)GO TO 263</pre>	BJU03350 BJU03360 BJU03370 BJU03380
- 1- - -	263 755	<pre>READ INTERCORRENT CHANGE PARAMETERS AND SET OF ACTIVITY DURATIONS A.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC / JOMAT(A1;3A3;2F5:2) IF(ICOM(I):EQ:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK</pre>	BJU03350 BJU03340 BJU03370 BJU03380 BJU03390
C C	263 755	<pre>ALAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.LAD(AI;JA3;2F5:2) IF(ICOM(I):EQ:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK</pre>	EJU03350 EJU03360 EJU03370 EJU03380 EJU03390 EJU03400
- 1- - -	263 755	<pre>ALAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC {AD(5:363)(ICOM(I);I=1;4);TFIC;TSIC {AD(AI;3A3;2F5:2) IF(ICOM(I):EQ:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203)</pre>	BJU03350 BJU03360 BJU03370 BJU03380 BJU03390 BJU03400 BJU03410
C C	263 755	<pre>kend intercorrent change parameters and set op activity durations klad(5,363)(icom(i),i=1,4),TFIC,TSIC r Comat(Ai,3A3,2F5.2) if(icom(i).eq.star)go to 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1)</pre>	EJU03350 EJU03360 EJU03370 EJU03380 EJU03490 EJU03410 EJU03420
C C	263 755	<pre>kend intercorrent change parameters and set op activity dorations k_AD(5:363)(ICOM(I),I=1,4),TFIC,TSIC r DMAT(A1:3A3:2F5.2) IF(ICOM(I).EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:FQ.205)GO TO 264</pre>	EJU03350 EJU03360 EJU03370 EJU03380 EJU03490 EJU03400 EJU03410 EJU03420 EJU03430
C C	263 755	<pre>READ INTERCORRENT CHANGE PARAMETERS AND SET OF ACTIVITY DURATIONS FLAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC floom(I);3A3;2F5:2) IF(ICOM(I):EQ:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ:205)GO TO 264 NEXT=NSET(NEXT)</pre>	EJU03350 EJU03360 EJU03376 BJU03380 BJU03390 EJU03400 BJU03410 EJU03420 BJU03430 BJU03440
C C	263 755	<pre>F.LAD(5:363)(ICOM(I);I=1:4);TFIC;TSIC FURMAT(A1:3A3:2F5:2) IF(ICOM(1):ER:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ:205)GO TO 264 NEXT=NSET(NEXT)</pre>	EJU03350 EJU03360 EJU03370 EJU03380 BJU03490 BJU03410 EJU03410 EJU03420 EJU03430 BJU03450
C C	263 755	<pre>A.LAD(5:363)(ICOM(I):I=1:4):TFIC:TSIC FURMAT(A1:3A3:2F5:2) IF(ICOM(1).ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ:205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1)</pre>	EJU03350 EJU03360 EJU03376 BJU03380 BJU03390 EJU03400 BJU03410 EJU03420 BJU03430 BJU03440
C C	243	<pre>ALAD(5:363)(ICOM(I):I=1:4):TFIC:TSIC FURMAT(A1:3A3:2F5:2) IF(ICOM(I):ED:STAR)GD TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:ED:205)GD TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606)</pre>	EJU03350 EJU03360 EJU03370 EJU03380 BJU03490 BJU03410 EJU03410 EJU03420 EJU03420 EJU03450 BJU03460
C C	243	<pre>ALAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC FURMAT(A1;3A3;2F5:2) IF(ICOM(I).EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND=RSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NE:205)CALL ERROR(606) GSET(NEXT+2)=TFIC</pre>	EJU03350 BJU03360 EJU03370 EJU03370 BJU03400 BJU03400 EJU03420 EJU03420 BJU03440 BJU03440 BJU03440 BJU03440 BJU03480
C C	243	<pre>F.LAD(5:363)(ICOM(I):I=1:4):TFIC:TSIC F.DMAT(A1:3A3:2F5:2) IF(ICOM(I):EQ.STAR)GO TO 263 ENDER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205)</pre>	EJU03350 BJU03360 BJU03370 BJU03370 BJU03400 BJU03410 BJU03420 RJU03420 RJU03440 RJU03450 BJU03440 BJU03440 BJU03440
C C	243	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.DRMAT(A1;3A3;2F5:2) IF(ICOM(I):ER:STAR)GD TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:ER:205)GO TO 264 NEXT=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1)</pre>	EJU03350 EJU03350 EJU03370 EJU03380 EJU03400 EJU03410 EJU03420 EJU03420 EJU03450 EJU03450 EJU03460 EJU03480 EJU03480 EJU03480
C C	243	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.DRMAT(A1;3A3;2F5.2) IF(ICOM(I).ER.STAR)GD TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.ER.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) USET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607)</pre>	EJU03350 EJU03350 EJU03370 BJU03380 BJU03400 BJU03410 EJU03420 EJU03420 BJU03420 BJU03450 BJU03440 BJU03460 BJU03460 BJU03480 BJU03490 BJU03500
CCC	243 233 244	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.DRMAT(A1;3A3;2F5:2) IF(ICOM(I):ER:STAR)GD TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:ER:205)GO TO 264 NEXT=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1)</pre>	EJU03350 EJU03360 EJU03370 BJU03390 BJU03400 EJU03410 EJU03420 EJU03420 EJU03420 BJU03450 BJU03460 BJU03480 BJU03480 BJU03490 BJU03510
	263	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC FLOMAT(A1;3A3;2F5:2) IF(ICOh(1):ER:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ:205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE:205)CALL ERROR(607) QSET(NEXT+2)=TSIC</pre>	EJU03350 EJU03360 EJU03370 BJU03390 EJU03400 EJU03410 EJU03420 EJU03420 EJU03450 EJU03450 EJU03460 EJU03480 EJU03480 EJU03510 EJU03520
000	263	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC f.DRMAT(A1;3A3;2F5.2) IF(ICOM(I).ER.STAR)GD TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.ER.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) USET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607)</pre>	EJU03350 EJU03360 EJU03370 BJU03390 BJU03400 EJU03410 EJU03420 EJU03420 EJU03450 EJU03450 BJU03460 BJU03480 EJU03480 BJU03500 EJU03510 EJU03520 BJU03530
	263	<pre>F.LAD(5:363)(ICOM(I);I=1;4);TFIC;TSIC FLOMAT(A1;3A3;2F5:2) IF(ICOh(1):ER:STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ:205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE:205)CALL ERROR(607) QSET(NEXT+2)=TSIC</pre>	EJU03350 EJU03360 EJU03370 BJU03370 BJU03400 BJU03410 EJU03420 BJU03420 BJU03420 BJU03450 BJU03450 BJU03460 BJU03480 BJU03480 BJU03500 BJU03510 BJU03520 BJU03530 BJU03540
000	263	<pre>F.LAD(5:363)(ICOM(I):I=1:4):TFIC:TSIC F.DMAT(A1:3A3:2F5:2) IF(ICOM(I):ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) USET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) QSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS</pre>	EJU03350 EJU03360 EJU03370 BJU03370 BJU03400 BJU03410 EJU03410 EJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03500 BJU03510 BJU03520 BJU03520 BJU03550
000	263	<pre>F.LAD(5:363)(ICOM(I),I=1:4),TFIC,TSIC f DMAT(A1:3A3:2F5:2) IF(ICOM(I):EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE:205)CALL ERROR(607) WSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5:365)(ICOM(I),I=1:4),(T(J),J=1:9)</pre>	EJU03350 RJU03350 RJU03370 BJU03380 BJU03400 BJU03410 BJU03420 RJU03420 RJU03420 BJU03420 BJU03420 BJU03420 BJU03420 BJU03440 BJU03440 BJU03440 BJU03500 BJU03520 BJU03550 BJU03550 BJU03550 BJU03550
000	263 755 254 265 365	<pre>F.LAD(5:363)(ICOM(I),I=1:4);TFIC,TSIC f DMAT(A1:3A3;2F5:2) IF(ICOh(1):EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND:EQ.205)GO TO 264 NEXT=NSET(NEXT+1) IF(NXTND:NE:205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE:205)CALL ERROR(607) RSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ[5:365)(ICOM(I):I=1:4);(T(J):J=1:7) FORMAT(A1:3A3;9F5:2)</pre>	EJU03350 EJU03350 EJU03370 EJU03370 EJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03520 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550
000	263 264 265 265 266	<pre>KLAD(5:363)(ICOM(I),I=1,4),TFIC,TSIC r_JMAT(Ai;3A3;2F5.2) IF(ICOh(1).EQ.STAR)GO TO 263 ENTER BURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) QSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) QSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5:365)(ICOM(I),I=1,4),(T(J),J=1,9) FORMAT(A1;3A3,9F5.2) IF(ICOM(1),EQ.STAR)GO TO 265</pre>	EJU03350 EJU03350 EJU03370 EJU03370 BJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 BJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03520 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550
000	263 264 265 265 266	<pre>KLAD(5,363)(ICOM(I),I=1,4),TFIC,TSIC r_MMAT(A1,3A3,2F5.2) IF(ICOM(I).EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(ICOM(I),I=1,4),(T(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(I),I=1,4),(IQT(J),J=1,9)</pre>	EJU03350 EJU03360 EJU03370 EJU03370 BJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03520 EJU03520 EJU03550 EJU03550 EJU03550 EJU03550 EJU03570 EJU03590
000	263 264 265 265 266	<pre>K_AB(5,363)(ICOM(I),I=1,4),TFIC,TSIC /MAT(A1,3A3,2F5.2) IF(ICOM(I).EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) USET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) RSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(I(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9I5)</pre>	EJU03350 EJU03360 EJU03370 EJU03370 EJU03400 EJU03410 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03480 EJU03480 EJU03500 EJU03520 EJU03520 EJU03550 EJU03580 EJU03590 EJU03590 EJU03590 EJU03590
	263 264 265 265 266	<pre>K_AB(5,363)(ICOM(I),I=1,4),TFIC,TSIC /MAT(A1,3A3,2F5.2) IF(ICOM(I).EQ.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) USET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) RSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(I(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9I5)</pre>	EJU03350 EJU03350 EJU03370 EJU03370 EJU03400 EJU03410 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03500 EJU03550 EJU03550 EJU03580 EJU03590 EJU03590 EJU03610
	263 264 265 265 266	<pre>K.AD(5,363)(ICOM(I),I=1,4),TFIC,TSIC F.CMAT(A1,3A3,2F5.2) IF(ICOM(I).ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) RSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(T(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I).I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9T5) IF(ICOM(1).EQ.STAR)GO TO 266</pre>	EJU03350 EJU03350 EJU03370 BJU03370 BJU03400 EJU03410 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03500 EJU03500 EJU03550 EJU03550 EJU03550 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU03580 EJU035
	263 264 265 265 266	<pre>K.AD(5,363)(ICOM(I),I=1,4),TFIC,TSIC F.CMAT(A1,3A3,2F5.2) IF(ICOM(I).ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND.EQ.205)GO TO 264 NEXT=NSET(NEXT) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(606) WSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND.NE.205)CALL ERROR(607) RSET(NEXT+2)=TSIC READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(T(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I).I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9T5) IF(ICOM(1).EQ.STAR)GO TO 266</pre>	EJU03350 EJU03350 EJU03370 EJU03370 EJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03440 EJU03440 EJU03440 EJU03440 EJU03500 EJU03500 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03560 EJU03560 EJU03610 EJU03620 EJU03630
	263 264 265 265 266	<pre>K_AD(5,363)(ICOM(I),I=1,4),TFIC,TSIC / _MAT(A1,3A3,2F5.2) IF(ICOM(I).ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NE.205)CALL ERROR(606) RSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,975.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,915) IF(ICOM(1).EQ.STAR)GO TO 266 ECHO DATA INPUT</pre>	EJU03350 EJU03350 EJU03370 EJU03370 EJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03500 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360
000 . 000	263 264 265 265 266	<pre>K_AD(5,363)(ICOM(I),I=1,4),TFIC,TSIC / _MAT(A1,3A3,2F5.2) IF(ICOM(I).ER.STAR)GO TO 263 ENTER DURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NE.205)CALL ERROR(606) RSET(NEXT+2)=TFIC NEXT=MFE(205) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ IN REMAINING INTERCURRENT CHANGE PARAMETERS READ(5,365)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,975.2) IF(ICOM(1).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,915) IF(ICOM(1).EQ.STAR)GO TO 266 ECHO DATA INPUT</pre>	EJU03350 EJU03350 EJU03370 EJU03370 EJU03400 EJU03400 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03500 EJU03520 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360
000 000	263 264 265 265 266	<pre>K.c.A.D(5, 363)(ICOM(I),I=1,4),TFIC,TSIC (MAT(A1,3A3,2F5.2) IF (ICOM(I).EQ.STAR)GO TO 263 ENTER BURATIONS INTO NETWORK NEXT=MFE(203) NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(NXTND=NSET(NEXT+1) IF(ICOM(I),I=1,4),(T(J),J=1,9) FORMAT(A1,3A3,9F5.2) IF(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9IS) IF(ICOM(I).EQ.STAR)GO TO 265 READ(5,366)(ICOM(I),I=1,4),(IQT(J),J=1,9) FORMAT(A1,3A3,9IS) IF(ICOM(1).EQ.STAR)GO TO 266 ECHO DATA INPUT IF(IECHO.EQ.1)GO TO 1000</pre>	EJU03350 EJU03360 EJU03370 EJU03370 EJU03400 EJU03410 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03420 EJU03500 EJU03520 EJU03520 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU03550 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU0360 EJU

	-	WRITE(6,500)	BJU03690
	500		BJU03700
	000	WRITE(6,502)	BJU03710
	500		
	202	FORMAT(//)	BJU03720
		WRITE(6,503)	BJU03730
	503		BJU03740
		WRITE(6,504)	BJU03750
	504	FORMAT(26X,4HNEXT,8X,10HINJUNCTION,3X,14HEXTERNAL DELAY/9X,8HACTI	JBJU03760
		LITY,8X,5HSTAGE,7X,11HPROBABILITY,4X,11HPROBABILITY)	BJU03770
		LITY,8X,5HSTAGE,7X,11HPROBABILITY,4X,11HPROBABILITY) WRITE(6,503)	BJU03780
		PO 505 I=1,14	BJU03790
			BJU03800
			BJU03810
	17 AL 17	WRITE(6,503)	
	505	CONTINUE	BJU03820
	506	FORMAT(/11X,13,12X,13,11X,F5.3,10X,F5.3)	BJN03830
		WRITE(6,507)	BJU03840
	507	FORMAT(///2X,63(1H-)/2X,8HDECISION,25X,6HBRANCH/3X,5HFOINT,7X,1H1	BJU03850
	2	*8Xy1H2y8Xy1H3y8Xy1H4y8Xy1H5y8Xy1H6/2Xy8(1H-)y6(2Xy7(1H-)))	BJU03860
		DO 508 I=1,24	BJU03870
		NB=NBRNCH(I)	BJ003880
		WRITE(6,509)I, (NEXTS(I,J), J=1,NB)	BJU03890
		WRITE(6,510)(PNEXT(I,J),J=1,NB)	BJU03900
		المراجع	BJU03910
	500	WRITE(6,514)	
	308	CONTINUE	BJU03920
	- 509	WRITE(6,504) CONTINUE FORMAT(5X,12,1X,6(5X,13)) FORMAT(4X,4HPROB,1X,6(4X,F5.3)) FORMAT(2X,63(1H-)) BEGIN SIMULATION PARAMETER ECHO WRITE(6,5001)	-BJU03930
	510	FORMAT(4X,4HFROB,1X,6(4X,F5.3))	BJU03940
	514	FORMAT(2X,63(1H-))	BJU03950
C	2		BJU03960
t	2	BEGIN SIMULATION PARAMETER ECHO	BJU03970
Ĉ			BJU03980
		URITE(6.5001)	BJU03990
	5001	FURMAT(1H1,///31X,21HSIMULATION PARAMETERS/30X,23(1H-))	BJU04000
	0001	WRITE(6,501)TREG	BJU04010
	6.43	FORMAT(//10X,23HTIME STATISTICS CLEARED,21(1H-),F6.2)	BJU04020
	201		
		WRITE(6,5021)TTFIN	BJU04030
	5021	FORMAT(/10X,21HSIMULATION RUN LENGTH,23(1H-),F6.2)	BJU04040
		WRITE(C,5031)NRUNS	BJU04050
	2031	(/10%ha)(/10%,22HNUMBER OF REPLICATIONS,22(1H-),F6.2)	BJU04060
	2	<pre>WRITE(S)SO31) ARONS FORMA) (/10X,22HNUMBER OF REPLICATIONS,22(1H-),F6.2) LEGIN SYSTEM PARAMETERS - ECHO</pre>	BJU04070
0	2	LEGIN SYSTEM PARAHETERS - ECHO	BJU04080
C	3		BJU04090
		WRITE(6,400) FORMAT(1H1)///31X,17HSYSTEM PARAMETERS/30X,19(1H-)) WRITE(6,401)NJ FORMAT(//10X,16HNUMBER OF JUDGES,28(1H-),16)	BJU04100
	400	FORMAT (1H1-///31X.17HSYSTEM PARAMETERS/30X.19(1H-))	BJU04110
	144	WEITE (AVA01)N.	BJU04120
	461	FORMATIZZIOX.IAHNUMBER DE UNDGES.28(1H-).IA)	BJU04130
	-101	WRITE(6,402)BETAJ	BJU04140
	400	FORMAT(/10X,22HBETA FACTOR FOR JUDGES,22(1H-),F6,2)	BJU04150
	402		BJU04160
		WRITE(6,403)WTMNU	
		FORMAT(/10X,20HMINIMUM WAITING TIME/10X,23HASSOCIATED WITH A JUDGE	
	-	1,21(1H-),F6,2)	BJU04180
		WRITE(6,404)WTMXJ	BJU04190
	404	FURMAT(/10X,20HMAXIMUM WAITING TIME/10X,23HASSOCIATED WITH A JUDGE	
	:	1,21(1H-),F6.2)	BJU04210
		WRITE(6,405)NOCSJ	BJU04220
	405	FORMAT(/10X,24HSUPPRESS JUDGE ICRT TEST/10X,32H(AFTER OTHER COURTH	RBJU04230
		100M ACTIVITY),12(1H-),16)	BJU04240
		WRITE(6,406)NCSJ	BJU04250
	404	FORMAT(/10X,33HSUPPRESS JUDGE ICRT AND INJ TESTS/10X,30H(AFTER NO)	
		1-COURTROOM ACTIVITY),14(1H-),16)	BJU04270
		WRITE(6,407)CDJ	BJU04280
		FORMAT(/10X,28HDURATION OF DELAY FOR A CASE/10X,17HPASSED BY A JU	
	:	1GE,27(1H-),F6.2)	BJU04300
		WRITE(6,408)CDA	BJU04310
		FORMAT(/10X,28HDURATION OF BELAY FOR A CASE/10X,21HPASSED BY AN A	
	:	1TORNEY,23(1H-),F6.2)	BJU04330
		WRITE(6,409)DIJ	BJU04340
	409	FORMAT(/10X,37HDURATION OF AN INTERNAL DELAY (JUDGE),7(1H-),F6.2)	
		WRITE(6,410)DIA	BJU04360
	<u>410</u>	FORMAT(/10X,40HDURATION OF AN INTERNAL DELAY (ATTORNEY),4(1H-),F6	
		12)	BJU04380
÷ .			BJU04390
5		WRITE(6,411)PJD FORMAT/(10Y, 7000000001111Y OF AN INTERNAL DELAY/10Y, 700001 DUING 1	
	411	FORMAT(/10X,32HPROBABILITY OF AN INTERNAL DELAY/10X,34HFOLLOWING	10004400

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		URIAL COMPLETION (JUDGE),10(1H-),F6.2) WRITE(6,412)PAD	
		RIAL COMPLETION ( HIDGE) + 10(1H-) - E4.2)	EJU04410
		WRITE (A.A.1.2) DON	BJU04420
14	412	FORMAT(/10X,32HPROBABILITY OF AN INTERNAL DELAY/10X,37HFOLLOWING T	
	- <u>-</u>	WRITE(6,447)PPC	BJU04450
	447	FORMAT(/10X,35HPROBABILITY THAT JUDGE AND ATTORNEY/10X,44HACCEPT A	BJU04460
1	<b>)</b>		BJU04470
0		BEGIN CRIMINAL PARAMETER ECHO	BJU04480
÷ (	3		BJU04490
	1	L PUBLIC CASE (GIVEN BOTH AVAILABLE)-,F6,2)	BJU04500
		<pre>IRIAL COMPLETION (ATTORNEY),7(1H-),F6.2) WRITE(6,447)PPC FORMAT(/10X,35HPROBABILITY THAT JUDGE AND ATTORNEY/10X,44HACCEPT # BEGIN CRIMINAL PARAMETER ECH0 I PUBLIC CASE (GIVEN BOTH AVAILABLE)-,F6.2) WRITE(6,413) FORMAT(1H1,///30X,19HCRIMINAL PARAMETERS/29X,21(1H-)) WRITE(6,414)NACR FORMAT(//10X,19HNUMBER OF ATTORNEYS,25(1H-),I6) WRITE(6,415)BETAR FORMAT(/10X,25HBETA FACTOR FOR ATTORNEYS,19(1H-),F6.2)</pre>	BJU04510
	413	<pre>FURMAI(1H1,///30X,19HCRIMINAL FARAMETERS/29X,21(1H-)) UDITE(/ ALA)ACC</pre>	BJU04520
	414	WRITE(6)414)NACR	BJU04530
	414	PURMET(//IOX/IPANUMBER OF ATTURNETS/23(IM-7/10)	BUU04340 BUU04550
	415	FORMAT(/10X,25HBETA FACTOR FOR ATTORNEYS,19(1H-),F6,2)	BJU04560
•	1	WRITE(6,416)WTMNR	BJU04570
	416	FORMAT(/10X, 33HMINIMUM WAITING TIME FOR ATTORNEY, 11(1H-), F6.2)	BJU04580
		WRITE(6,417)WTMXR	BJU04590
	417	FORMAT(/10X,33HMAXIMUM WAITING TIME FOR ATTORNEY,11(1H-),F6.2)	BJU04600
• .		WRITE(6,418)NOCSR	BJU04610
		FORMAT(/10X,27HSUPPRESS ATTORNEY ICRT TEST/10X,32H(AFTER OTHER COL	
	. 1	LRTROOM ACTIVITY),12(1H-),16)	BJU04630
	410	WRITE(6,419)NCSAR	BJU04640
		FORMAT(/10X,35HSUPPRESS ATTORNEY ICRT AND INJ TEST/10X,30H(AFTER N	BJU04650
	-	LON-COURTROOM ACTIVITY),14(1H-),I6) WRITE(6,420)STT	BJU04680
	420	CONSAT/ HAY TTURAVINUM TIME DUDATION ALLOURD DETRICTATION TOUTOTAL	
		FORMAT(/10X)3/HMAXIMUM TIME DURATION ACLOWED BETWEEN/10X)3BATRIAL 1AND ARRAIGNMENT IN SPEEDY TRIALS,6(1H-),F6.2) WRITE(6,465)RLSE FORMAT(/10X,22HPROBABILITY OF RELEASE,22(1H-),F6.2)	BJU04690
	•	401TE(6,465)RLSE	BJU04700
	465	F.ORMAT(/10X,22HPROBABILITY OF RELEASE,22(1H-),F6.2)	BJU04710
		URITE(6,466)BAIL	BJU04720
	466	FORMAT(/10X,19HPROBABILITY OF BAIL,25(1H-),F6.2)	BJU04730
		WRITE(6,421)	BJU04740
	451	FORMAT(/10X,50HCRIMINAL CASE INTERARRIVAL DISTRIBUTION PARAMETERS) D0 423 I=1,4	BJU04760
1		WRITE(6,422)I,PARAM(1,I)	EJU04770
	422	FORMAT(/10X,9HPARAMETER,12,33(1H-),F7.2)	BJU04780
			BJU04790
			BJU04800
		FORMAT(///3X, 8HACTIVITY, 10X, 19HDURATION PARAMETERS, 12X, 18HEPISODE	
		LPARAMETERS/2X,11HDESCRIPTION,5X,1H1,7X,1H2,7X,1H3,7X,1H4,7X,1H1,7X	
		2y1H2y7Xy1H3y7Xy1H4/1Xy13(1H-)y8(2Xy6(1H-)))	BJU04830 BJU04840
	A 253	FORMAT(/1X,10HINJUNCTION,3X,8(2X,F6,2))	BJU04850
	-140	$\frac{1}{2} \frac{1}{2} \frac{1}$	BJU04860
	426	2,1H2,7X,1H3,7X,1H4/1X,13(1H-),8(2X,6(1H-))) WRITE(6,425)(PARAM(38,J),J=1,4) FORMAT(/1X,10HINJUNCTION,3X,8(2X,F6.2)) WRITE(6,426)(PARAM(48,J),J=1,4),(PARAM(28,K),K=1,4) FORMAT(/1X,11HBENCH TRIAL,2X,8(2X,F6.2)) URITE(6,427)(PARAM(49,J),J=1,4),(PARAM(32,K),K=1,4)	BJU04870
		UR(ITE(6,427)(PARAM(49,J),J=1,4),(PARAM(32,K),K=1,4)	BJU04880
	427	FORMAT(/1X,10HJURY TRIAL,3X,8(2X,F6.2))	BJU04890
		WRITE(6,428)(PARAM(52,J),J=1,4),(PARAM(18,K),K=1,4)	BJU04900
	428	FORMAT(/1X,10HGRAND JURY,3X,8(2X,F6.2))	BJU04910
	×	UR(TE(6,429)(FARAM(16,J),J=1,4)	BJU04920
	429	FORMAT(/1X,10HINDICTMENT,3X,4(2X,F6,2))	BJU04930 BJU04940
	470	WRITE(6,430)(PARAM(63,J),J=1,4) FORMAI(/1X,11HARRAIGNMENT,2X,4(2X,F6.2))	BJU04950
	- 40V	WRITE(6:431)(PARAM(6:J);J=1:4)	BJU04960
	431	FORMAT(/1X,13HREARRAIGNMENT,4(2X,F6.2))	BJU04970
		WRITE(5,432)(FARAM(5,J),J=1,4)	BJU04980
	432	FORMAT(/1X,10HSENTENCING,3X,4(2X,F6,2))	BJU04990
		WRITE(6,433)(PARAM(56,J),J=1,4)	BJU05000
	433		BJU05010
		WRITE(6, 434)(PARAM(58, J), J=1, 4)	BJU05020
	434	FORMAT(/1X,13HINVESTIGATION,4(2X,F6.2))	BJU05030
	A-7 #	WRITE(6,435)(PARAM(20,J),J=1,4) FORMAT(/1X,11HINFORMATION,2X,4(2X,F6,2))	BJU05040 BJU05050
	400	WRITE(6,436)(PARAM(65,J),J=1,4)	BJU05040
	436	FORMAT(/1X,13HINTL CSE PREP,4(2X,F6.2))	BJU05070
		WRITE(6,437)(PARAM(66,J),J=1,4),(PARAM(19,K),K=1,4)	BJU05080
	437	FORMAT(/1X,12HFLEA BARGAIN,1X,8(2X,F6.2))	BJU05090
	n di	WRITE(6,438)(PARAH(68,J),J=1,4)	BJU05100
	438	FORMAT(/1X,12HFNL CSE PREP,1X,4(2X,F6.2))	BJU05110
		WRITE(6,439)(PARAM(69,J),J=1,4)	BJU05120

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	439	FORMAT(/1X,12HPRE-SENT (A),1X,4(2X,F6.2)) WRITE(6,440)(PARAM(36,J),J=1,4) FORMAT(/1X,9HEXT DELAY,4X,4(2X,F6.2)) BEGIN CIVIL / US ECHO	BJU05130
		WRITE(6,440)(FARAM(36,J),J=1,4)	BJU05140
	440	FORMAT(/1X,9HEXT DELAY,4X,4(2X,F6.2))	BJU05150
С			BJU05160
C		BEGIN CIVIL / US ECHO	BJU05170
С			BJU05180
		URITE(6,441)	BJU05190
	441	FORMAT(1H1,///29X,21HCIVIL / US PARAMETERS/28X,23(1H-))	BJU05200 BJU05210
		URITE(6,414)NACU	BJU05210
		WRITE(6,415)BETAV	BJU05220
		WRITE(6,416)WTMNV	BJU05230
		WRITE(3,417)WTMXV	BJU05240
	·· •	WRITE(6,414)NACU WRITE(6,415)BETAV WRITE(6,416)WTMNV WRITE(6,417)WTMXV WRITE(6,418)NOCSV	BJU05250
		WRITE(6,419)NCSAV WRITE(6,412)PC FORMAT(/10X,23HPROBABILITY OF NO JUDGE,21(1H-),F6.2)	BJU05260
		WRITE(6,442)PC FORMAT(/10X,23HPROBABILITY OF NO JUDGE,21(1H-),F6,2)	BJU05270
	442		
		WRITE(6,443)FEDC	BJU05290
		FORMAT(/10X,25HPROBABILITY THAT EXTERNAL/10X,28HDELAY IS NEXT STA	
	-	1E SELECTED, 16(1H-), F6.2)	BJU05310
		WRITE(6:444)FIV	BJU05320
	444	FORMAT(/10X,28HPROBABILITY OF AN INJUNCTION,16(1H-),F6.2)	BJU05330 BJU05340
	115	WRITE(6,445)FTV FORMAT(/10X,22HFROBABILITY OF A TRIAL,22(1H-),F6.2)	BJU05350
	440	WRITE(6,446)PRTV	BJU05360
	604	FORMAT(/10X,22HPROBABILITY OF A BENCH/10X,31HTRIAL (GIVEN THAT TR	
		1AL OCCURS),13(1H-),F6.2)	BJU05380
	-	WRITE(6,448)	BJU05390
	448	FORMAT(/10X, 52HCIVIL / US CASE INTERARRIVAL DISTRIBUTION PARAMETER	
			BJU05410
		DO 449 I=1,4	BJU05420
		URITE(6,422)I,PARAM(2,I)	BJU05430
	449	CONTINUE	BJU05440
		WRITE(3,424)	BJU05450
		DO 449 I=1,4 'RITE(6,422)I,PARAM(2,I) CONTINUE WRITE(6,424) WRITE(6,425)(PARAM(39,J),J=1,4),(PARAM(22,K),K=1,4) WRITE(6,426)(PARAM(50,J),J=1,4),(PARAM(29,K),K=1,4) WRITE(6,427)(PARAM(51,J),J=1,4),(PARAM(33,K),K=1,4)	BJU05460
	•	WRITE(6,426)(PARAM(50,J),J=1,4),(PARAM(29,K),K=1,4)	BJU05470
			BJU05470 BJU05480
	450	WRITE(6,450)(PARAM(23,3),3),3=1,4),(PARAM(23,7),7),4) FORMAT(/1X,11HOTHER COURT,2X,8(2X,F6,2)) WRITE(6,451)(PARAM(57,J),J=1,4), FORMAT(/1X,11HNONCORT (J),32X,8(2X,F6,2)) WRITE(6,452)(PARAM(25,J),J=1,4) FORMAT(/1X,13HNONCORT (A/J),32X,4(2X,F6,2)) WRITE(6,453)(PARAM(64,J),J=1,4) FORMAT(/1X,13HNONCORT(A/NJ),32X,4(2X,F6,2)) WRITE(6,454)(PARAM(59,J),J=1,4) FORMAT(/1X,11HNONCORT (A),2X,4(2X,F6,2)) WRITE(6,455)(PARAM(21,J),J=1,4) FORMAT(/1X,13HEXT DELAY (J),32X,4(2X,F6,2)) WRITE(6,456)(PARAM(21,J),J=1,4) FORMAT(/1X,13HEXT DELAY (J),32X,4(2X,F6,2)) WRITE(6,456)(PARAM(62,J),J=1,4) FORMAT(/1X,13HEXT DELAY (J),32X,4(2X,F6,2))	BJU05500
		WRITE(3,451)(PARAM(57,J),J=1,4),(PARAM(24,K),K=1,4)	BJU05510
	451	FURRA((/1X,11HNONCOR) (J),2X,8(2X,F8.2))	BJ005520
	4.171.03	WR1   E(3,482) (PARAM(25,3), J=1,4)	80000000
	452	FURMAL(/IX)I3HNUNLUK((A/J))32X)4(2X)F6.2))	BJ00JJ40 D HIASSSA
	457	WRI(E(5)403)(FARAHA(64)3)/3-1/4/ FORMAT//4/	100000000
	400	FURTHELY INFIGURATION (HTTH/NJ) 5279427764277	B U05570
	154	WAITER()/434/AFHAHAA/753/33-174/ FARMAT(/19.114NANCORF (A).29.4(29.FA.2))	B.IH05580
	10-1	BETTEL (A. ASTINGROUCH, I) = [] = [ A )	8.0005590
	455	FORMAT(/1X, 13) FEVEN DELAY (.), 32X, 4(2X, F4.2))	BJU05600
		WEITE(4, 456)(EARAM(42, 1), 1=1, 4)	BJU05610
	456	FORMAT(/1X:13HEXT DELAY(NJ):32X:44(2X:F6.2))	BJU05620
		WRITE(6,457)(PARAM(37,J),J=1,4)	BJU05630
	457	FORMAT(/1X,9HEXT DELAY,4X,4(2X,F6,2))	BJU05640
С			BJU05650
С		PEGIN FEDERAL QUESTION ECHO	BJU05660
С			BJU05670
		URITE(6,458)	BJU05680
	458	FORMAT(1H1,///27X,27HFEDERAL QUESTION PARAMETERS/26X,29(1H-))	BJU05690
		WRITE(6,459)	BJU05700
	459	FORMAT(/)	BJU05710
		WRITE(6,442)PF	BJU05720
		WRITE(6,443)PEDF	BJU05730
		WRITE(6,444)PIF	BJU05740
		WRITE(6,445)FTF	BJU05750
		WRITE(6,446)PBTF	BJU05760 BJU05770
	A / A	WRITE(6,460) FORMAT(/10X,53HFEDERAL QUESTION INTERARRIVAL DISTRIBUTION PARAMET	
			BJU05790
		1RS) IO 461 I=1,4	BJU05800
		WRITE(6,422)I,FARAM(3,I)	BJU05810
	A 4 4	CONTINUE	BJU05820
	-101	WRITE(6,424)	BJU05830

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		WRITE(6,425)(PARAM(42,J),J=1,4),(PARAM(8,K),K=1,4)	BJU05840
		WRITE(6,426)(PARAM(44,J),J=1,4),(PARAM(26,K),K=1,4)	BJU05850
		WRITE(6,427)(PARAM(45,J),J=1,4),(PARAM(30,K),K=1,4)	BJU05860
		WRITE(6,450)(PARAM(40,J),J=1,4),(PARAM(9,K),K=1,4)	BJU05870
		WRITE(6,451)(PARAM(54,J),J=1,4),(PARAM(10,K),K=1,4)	BJU05880
		WRITE(3,455)(PARAM(7,J),J=1,4)	BJU05890
		WRITE(6,456)(PARAM(61,J),J=1,4)	BJU05900
		WRITE(6, 457)(FARAM(34, J), J=1, 4)	BJU05910
С			BJU05920
С		BEGIN DIVERSITY JURISDICTION ECHO	BJU05930
С.			BJU05940
		WRITE(6,462)	BJU05950
	462	FORMAT(1H1;///24X;33HDIVERSITY JURISDICTION PARAMETERS/23X;35(1H-)	
		k)	BJU05970
		URITE(6,459)	BJU05980
		WRITE(6,442)PD	BJU05990
		WRITE(6,443)FEDD	BJU06000
		WRITE(6,444)PID	BJU06010
		WRITE(6,445)PTD	BJU06020
		WRITE(6,446)PBTD	BJU06030
		WRITE(6,463)	BJU06040
	463	FORMAT(/10X,59HDIVERSITY JURISDICTION INTERARRIVAL DISTRIBUTION PA	ABJU06050
	1	LRAMETERS)	BJN09090
		NO 464 I=1,4 .	BJU06070
		WRITE(6,422)I,FARAM(4,I)	BJN09080
	464	CONTINUE	BJU06090
		WRITE(6y424)	BJU06100
		WRITE(6,425)(FARAM(43,J),J=1,4),(PARAM(12,K),K=1,4)	BJU06110
		URITE(6,426)(PARAM(46,J),J=1,4),(PARAM(27,K),K=1,4)	BJU06120
	•	WRITE(6,427)(FARAM(47,J),J=1,4),(FARAM(31,K),K=1,4)	BJU06130
		WRITE(6,450)(FARAM(41,J),J=1,4),(PARAM(13,K),K=1,4)	BJU06140
		URITE(6,451)(PARAM(55,J),J=1,4),(PARAM(14,K),K=1,4)	BJU06150
		WRITE(6,455)(FARAM(67,J),J=1,4)	BJU06160
		URITE(8,456)(PARAM(60,J),J=1,4)	BJU06170 -
		WRITE(6,457)(PARAM(35,J),J=1,4)	BJU06180
			7.000000000
С			BJU06190
C C		ECHO INTERCURRENT CHANGE PARAMETERS	
		ECHO INTERCURRENT CHANGE PARAMETERS	BJU06190 BJU06200 BJU06210
Ċ.		ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520)	BJU06190 BJU06200 BJU06210 BJU06220
Ċ.	320	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-))	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230
Ċ.		ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230 BJU06240
Ċ.	521	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230 BJU06240 BJU06250
Ċ.	521	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2)	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230 BJU06230 BJU06250 BJU06260
Ċ.	521 X	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC	BJU06190 BJU06200 BJU06210 BJU06230 BJU06230 BJU06250 BJU06250 BJU06250 BJU06250
Ċ.	521 x 522	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F k6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H-	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230 BJU06240 BJU06250 BJU06260 BJU06270 BJU06280
Ċ.	521 x 522	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2)	BJU06190 BJU06200 BJU06210 BJU06220 BJU06230 BJU06240 BJU06250 BJU06250 BJU06270 BJU06280 BJU06280 BJU06290
Ċ.	521 x 522 x	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K);F6.2) WRITE(6,523)	BJU06190 BJU06200 BJU06220 BJU06220 BJU06230 BJU06240 BJU06250 BJU06250 BJU06270 BJU06270 BJU06290 BJU06290 BJU06300
Ċ.	521 822 823	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F %6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %);F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD;7X,10HTEST INDEX/5X,20(1H-),	BJU06190         BJU06200         BJU06210         BJU06220         BJU06230         BJU06240         BJU06250         BJU06250         BJU06280         BJU06280         BJU06280         BJU06280         BJU06290         BJU06300         BJU06310
Ċ.	521 822 823	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(//10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(4H-),5X,12(1H-))	BJU06190         BJU06200         BJU06220         BJU06220         BJU06230         BJU06240         BJU06240         BJU06250         BJU06280         BJU06280         BJU06280         BJU06290         BJU06290         BJU06310         BJU06320
Ċ.	522 8 522 8 523	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1)	BJU06190 BJU06200 BJU06220 BJU06220 BJU06230 BJU06240 BJU06250 BJU06250 BJU06270 BJU06280 BJU06290 BJU06320 BJU06320 BJU06320 BJU06330
Ċ.	522 8 522 8 523	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06240         BJU06250         BJU06250         BJU06280         BJU06280         BJU06280         BJU06290         BJU06300         BJU06310         BJU06320         BJU06330         BJU06330
Ċ.	522 522 523 523 8 524	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- X),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2)	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06280         BJU06280         BJU06280         BJU06270         BJU06280         BJU06280         BJU06280         BJU06280         BJU06280         BJU06300         BJU06310         BJU06330         BJU06330         BJU06330         BJU06330
Ċ.	522 522 523 523 8 524	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F k6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- k),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), k5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06280         BJU06280         BJU06290         BJU06300         BJU06310         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330
Ċ.	522 8 522 8 523 8 523 8 525	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6,524)T(1),IQT(1) FORMAT(/6,525)T(2),IQT(2) FORMAT(/6,526)T(2),IQT(2) FORMAT(/6,526)T(3),IQT(3)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06280         BJU06280         BJU06290         BJU06300         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330
Ċ.	522 8 522 8 523 8 523 8 525	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F %6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,6HJDG-CT,20X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06240         BJU06250         BJU06270         BJU06270         BJU06280         BJU06290         BJU06300         BJU06310         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330
Ċ.	521 522 523 523 525 526	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- k),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), k5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,6HJDG-CT,20X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4)	BJU06190         BJU06210         BJU06220         BJU06230         BJU06240         BJU06240         BJU06240         BJU06240         BJU06270         BJU06280         BJU06270         BJU06290         BJU06290         BJU06300         BJU06300         BJU06330         BJU06330         BJU06330         BJU06330         BJU06350
Ċ.	521 522 523 523 525 526	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F %6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5)	BJU06190         BJU06200         BJU06220         BJU06240         BJU06240         BJU06240         BJU06240         BJU06250         BJU06280         BJU06280         BJU06280         BJU06290         BJU06280         BJU06280         BJU06280         BJU06280         BJU06300         BJU06310         BJU06300         BJU06300         BJU06300         BJU06300         BJU06300         BJU06300         BJU06330         BJU06370         BJU06370         BJU06370         BJU06390         BJU06390         BJU06490
Ċ.	522 522 523 523 524 525 525 527	ECHO INTERCURRENT CHANGE FARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,14HTOC-ATC,20X,F6.2,11X,I5) WRITE(6,520)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,528)T(5),IQT(5)	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06250         BJU06260         BJU06270         BJU06280         BJU06280         BJU06300         BJU06310         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06350         BJU06350         BJU06370         BJU06390         BJU064390         BJU06430         BJU06430         BJU06430         BJU06430         BJU06430
Ċ.	522 522 523 523 524 525 525 527	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(4,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K);F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(3) FORMAT(/6X,14HTOC-T,20X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,528)T(5),IQT(5) FORMAT(/6X,19HATT-CT (CIVIL/U,S,),7X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06230         BJU06250         BJU06250         BJU06260         BJU06270         BJU06280         BJU06270         BJU06280         BJU06280         BJU06300         BJU06320         BJU06330         BJU06340         BJU06390         BJU06400         BJU06410         BJU06410
Ċ.	522 x 522 x 523 x 524 525 526 527 528	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- k);F6.2) WRITE(6,523) FORMAT(/12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(2),IQT(2) FORMAT(/6X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(3) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,528)T(5),IQT(5) FORMAT(/6X,19HATT-CT (CIVIL/U,S.),7X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(6)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06280         BJU06280         BJU06290         BJU06300         BJU06310         BJU06330         BJU06430         BJU06430         BJU06410         BJU06410         BJU06410         BJU06410
Ċ.	522 x 522 x 523 x 524 525 526 527 528	ECHO INTERCURRENY CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- k),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HT0C-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,14HT0C-T,20X,F6.2,11X,I5) WRITE(6,528)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529,T(6),IQT(5) FORMAT(/6X,14HJ0G-NC,20X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06290         BJU06310         BJU06320         BJU06430         BJU06440         BJU06410         BJU06420         BJU06430         BJU06420
Ċ.	522 x 522 x 523 x 524 525 527 528 529	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HT0C-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,2HJDG-CT,20X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/6X,19HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(5) FORMAT(/6X,6HJDG-NC,20X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,6HJDG-NC,20X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,6HJDG-NC,20X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06260         BJU06270         BJU06280         BJU06290         BJU06300         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06340         BJU06430         BJU06430         BJU06430         BJU06430         BJU06430         BJU06440         BJU064430         BJU064430
Ċ.	522 x 522 x 523 x 524 525 527 528 529	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETER5/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F 86.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/4X,14HT0C-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(5) FORMAT(/6X,19HATT-CT (CIVIL/U,S.),7X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(5) FORMAT(/6X,19HATT-CT (CIVIL/U,S.),7X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,17HATT-CT (CIVIL/U,S.),7X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06240         BJU06250         BJU06280         BJU06280         BJU06290         BJU06300         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06430         BJU06430         BJU06410         BJU06430         BJU06430         BJU06430         BJU06430         BJU06430         BJU06430         BJU06440         BJU06440
Ċ.	522 x 522 x 523 x 524 525 527 528 529 530	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25x,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F &6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- *),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), %5x,11(4H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(3) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,19HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,531)T(8),IQT(8)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06270         BJU06270         BJU06270         BJU06270         BJU06270         BJU06270         BJU06330         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440
Ċ.	522 x 522 x 523 x 524 525 527 528 529 530	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- K),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,15) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,15) WRITE(6,526)T(3),IQT(3) FORMAT(/6X,14HTOC-ATT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,520)T(5),IQT(5) FORMAT(/6X,19HATT-CT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,520)T(6),IQT(6) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,531)T(5),IQT(6) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,531)T(5),IQT(6) FORMAT(/6X,17HATT-NC (CIVIL/U.S.),7X,F6.2,11X,15)	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06280         BJU06320         BJU06310         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06350         BJU06390         BJU06430         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440         BJU06440
Ċ.	522 823 523 524 525 527 528 529 530 531	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,520)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K4.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- X),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,15) WRITE(6,522)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,15) WRITE(6,522)T(3),IQT(3) FORMAT(/6X,12HATT-CT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,529)T(6),IQT(5) FORMAT(/6X,12HATT-CT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,12HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),7X,F	BJU06190         BJU06210         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06250         BJU06260         BJU06270         BJU06280         BJU06280         BJU06280         BJU06280         BJU06300         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU064300         BJU064300         BJU064400         BJU064400         BJU064400         BJU064400         BJU064400         BJU06470         BJU06470         BJU06470         BJU06470         BJU06470         BJU06470         BJU06470
	522 822 522 523 524 525 526 527 528 529 530 531 532	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6.2) WRITE(6,522)TSIC FORMAT(//10X,43HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), MXITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(3),IQT(3) FORMAT(/6X,14HTOC-ATT (CIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529)T(5),IQT(5) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(8) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,19HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,19HATT-NC (CIVIL/U.S.),7X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06280         BJU06280         BJU06280         BJU06280         BJU06320         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06330         BJU06430         BJU06430         BJU06440         BJU06430         BJU06430         BJU06440         BJU06440         BJU06440         BJU06480         BJU06480         BJU06480         BJU06480         BJU06480         BJU06480         BJU06480
	522 8 522 523 524 525 527 528 527 528 529 530 531 532	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,520)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K4.2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- X),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), K5X,11(1H-),5X,12(1H-)) WRITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,15) WRITE(6,522)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,15) WRITE(6,522)T(3),IQT(3) FORMAT(/6X,12HATT-CT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,529)T(6),IQT(5) FORMAT(/6X,12HATT-CT (CRIMINAL),9X,F6.2,11X,15) WRITE(6,529)T(6),IQT(6) FORMAT(/6X,12HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),9X,F6.2,11X,15) WRITE(6,530)T(7),IQT(7) FORMAT (/6X,517HATT-NC (CRIMINAL),7X,F	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06280         BJU06280         BJU06280         BJU06280         BJU06280         BJU06300         BJU06300         BJU06320         BJU06330         BJU06430         BJU06410         BJU06410         BJU06440         BJU06440         BJU06440         BJU06450         BJU06480         BJU06490         BJU06490         BJU06490         BJU06490         BJU06500         BJU06500
	522 522 523 524 524 525 526 527 528 529 530 531 532	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETER5/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6,2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6,2) WRITE(6,522) FORMAT(/12X,6HCHANGE,13X,9HTHRESHOLB,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,523) FORMAT(/2X,14HT0C-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/2X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/2X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,520)T(5),IQT(5) FORMAT(/2X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,520)T(6),IQT(6) FORMAT(/2X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/2X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(9) FORMAT(/2X,5HPRI-J,21X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06270         BJU06280         BJU06280         BJU06270         BJU06310         BJU06320         BJU06430         BJU06420         BJU06420         BJU06420         BJU06420         BJU06440         BJU06450         BJU06450         BJU06490         BJU06490         BJU06500         BJU06500         BJU06500
00 00	522 522 523 524 524 525 526 527 528 529 530 531 532	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETERS/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F &6.2) WRITE(6,522)TSIC FORMAT(//10X,43HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6.2) WRITE(6,523) FORMAT(//12X,6HCHANGE,13X,9HTHRESHOLD,7X,10HTEST INDEX/5X,20(1H-), MXITE(6,524)T(1),IQT(1) FORMAT(/6X,14HTOC-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/6X,14HTOC-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(3),IQT(3) FORMAT(/6X,14HTOC-ATT (CIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,529)T(5),IQT(5) FORMAT(/6X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(8) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,19HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/6X,19HATT-NC (CIVIL/U.S.),7X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06290         BJU06300         BJU06320         BJU06430         BJU06440         BJU06420         BJU06420         BJU06440         BJU06450         BJU06450         BJU06450         BJU06450         BJU06450         BJU06450         BJU06510         BJU06520         BJU06520
	522 522 523 524 524 525 526 527 528 529 530 531 532	ECHO INTERCURRENT CHANGE PARAMETERS WRITE(6,520) FORMAT(1H1,///25X,30HINTERCURRENT CHANGE PARAMETER5/24X,32(1H-)) WRITE(6,521)TFIC FORMAT(//10X,40HTIME TO FIRST INTERCURRENT CHANGES' TEST,10(1H-),F K6,2) WRITE(6,522)TSIC FORMAT(/10X,45HTIME TO SUBSEQUENT INTERCURRENT CHANGES' TEST,5(1H- %),F6,2) WRITE(6,522) FORMAT(/12X,6HCHANGE,13X,9HTHRESHOLB,7X,10HTEST INDEX/5X,20(1H-), %5X,11(1H-),5X,12(1H-)) WRITE(6,523) FORMAT(/2X,14HT0C-JDG (TIME),12X,F6.2,11X,I5) WRITE(6,525)T(2),IQT(2) FORMAT(/2X,14HT0C-ATT (TIME),12X,F6.2,11X,I5) WRITE(6,527)T(4),IQT(4) FORMAT(/2X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,520)T(5),IQT(5) FORMAT(/2X,17HATT-CT (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,520)T(6),IQT(6) FORMAT(/2X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(7) FORMAT(/2X,17HATT-NC (CRIMINAL),9X,F6.2,11X,I5) WRITE(6,530)T(7),IQT(9) FORMAT(/2X,5HPRI-J,21X,F6.2,11X,I5)	BJU06190         BJU06210         BJU06230         BJU06230         BJU06230         BJU06230         BJU06230         BJU06250         BJU06260         BJU06270         BJU06280         BJU06270         BJU06280         BJU06280         BJU06270         BJU06310         BJU06320         BJU06430         BJU06420         BJU06420         BJU06420         BJU06420         BJU06440         BJU06450         BJU06450         BJU06490         BJU06490         BJU06500         BJU06500         BJU06500

NFRST=MFE(146) BJU06550 NEXT=NSET(NFRST) BJU06560 NUM=NSET(NFRST+5) والمحمد والمحاد BJU06570 IF((NUM.LT.4).DR.(NUM.GT.9))CALL ERROR(608) BJU06580 QSET(NFRST+2)=CDJ BJU06590 IF(NEXT.LE.O)CALL ERROR(609) BJU06600 1700 NUM=NSET(NEXT+5) B.1106610 IF((NUM.LT.4).OR.(NUM.GT.9))CALL ERROR(610) BJI06620 QSET(NEXT+2)=CDJ BJU06630 NEXT=NSET(NEXT) BJU06640 IF(NEXT.GT.0)G0 TO 1700 BJU06650 C BJU06660 С ENTER DURATION OF DELAY FOR A CASE PASSED BY AN ATTORNEY BJU06670 n BJU06680 BJU06690 NFRST=MFE(147) NEXT=NSET(NFRST) BJU06700 NUM=NSET(NFRST+5) BJU06710 IF((NUM, LT.10).0R. (NUM.GT.22)) CALL ERROR(611) BJU06720 QSET(NFRST+2)=CDA BJU06730 IF(NEXT, LE, 0)CALL ERROR(612) BJU06740 1710 NUM=NSET(NEXT+5) B.III06750 IF((NUM.LT.10).OR.(NUM.GT.22))CALL ERROR(613) BJU06760 QSET(NEXT+2)=CDA BJU06770 NEXT=NSET(NEXT) BJU06780 IF(NEXT.GT.0)60 TO 1710 PJU06790 B1009900 C С ENTER PROBABILITY OF NO JUDGE IN CIVIL CASE BJU06810 C BJU06820 IA1=MFE(150) BJU06830 IA2=NSET(IA1) BJU06840 NUM1=NSET(IA1+5) BU006850 NUM2=NSET(IA2+5) BJU06860 IF(NUM1.NE.25)GO TO 1720 BJU06870 QSET(IA1+6)=PC BJU06880 .IF(NUM2.NE.26)CALL ERROR(614) B.JH06890 USET(IA2+6)=1. BJU06900 GO TO 1730 BJU06910 1/20 CONTINUE BJU06920 IF(NUM2.NE.25)CALL ERROR(615) BJU06930 QSET(1A2+6)=1. BJU06940 IF(NUM1.NE.26)CALL ERROR(616) BJU06950 QSET(IA1+6)=1.-PC BJU06960 1730 CONTINUE BJU06970 С BJU06980 с С ENTER PROBABILITY OF NO JUDGE IN FEDERAL QUESTION CASE B.JU06990 BJU07000 IA1=MFE(152) BJU07010 IA2=NSET(IA1) BJU07020 NUM1=NSET(IA1+5) BJU07030 NUM2=NSET(IA2+5) BJU07040 IF(NUM1.NE.27)G0 TO 1740 BJU07050 QSET(IA1+6)=PF BJU07060 IF(NUM2,NE,28)CALL ERROR(617) BJU07070 R.IU07080 QSET(IA2+6)=1. CO TO 1750 BJU07090 1740 CONTINUE BJU07100 IF (NUM2.NE.27)CALL ERROR(618) BJU07110 QSET(IA2+6)=1. BJU07120 IF(NUM1.NE.28)CALL ERROR(619) BJU07130 BJU07140 QSET(IA1+6)=1.-FF 1750 CONTINUE BJU07150 С BJU07160 ĉ ENTER PROBABILITY OF NO JUDGE IN DIVERSITY JURISDICTION CASE BJU07170 c BJU07180 IA1=MFE(154) BJU07190 IA2=NSET(IA1) B.III07200 NUM1=NSET(IA1+5) BJU07210 BJU07220 NUM2=NSET(IA2+5) IF(NUM1.NE.29)G0 TO 1760 BJU07230 QSET(IA1+6)=PD BJU07240 IF(NUM2.NE.30)CALL ERROR(620) BJU07250 BJU07260 QSET(IA2+6)=1.

GO TO 1770 BJU07270 1760 CONTINUE BJU07280 IF(NUM2,NE.29)CALL ERROR(621) BJU07290 QSET(IA2+6)=1. BJU07300 IF (NUM1.NE.30)CALL ERROR(622) BJU07310 QSET(IA1+6)=1,-PD BJU07320 1770 CONTINUE BJU07330 C BJU07340 С ENTER PROBABILITY OF INTERNAL DELAY FOR JUDGE BJU07350 C BJU07360 IA1=MFE(158) BJU07370 IA2=NSET(IA1) BJU07380 NUM1=NSET(IA1+5) BJU07390 NUM2=NSET(IA2+5) BJU07400 IF (NUM1.NE.31) GO TO 1780 BJU07410 QSET(IA1+6)=PUD BJU07420 IF(NUM2.NE.32)CALL ERROR(623) BJU07430 QSET(IA2+6)=1. BJU07440 GO TO 1790 BJU07450 1780 CONTINUE BJU07460 IF(NUM2.NE.31)CALL ERROR(624) BJU07470 QSET(IA2+6)=1. BJU07480 IF(NUM1.NE.32)CALL ERROR(625) BJU07490 QSET(IA1+6)=1.-PJD BJU07500 1790 CONTINUE BJU07510 C BJU07520 C ENTER PROBABILITY OF AN INTERNAL DELAY FOR ATTORNEY BJU07530 C BJU07540 IA1=MFE(164) BJU07550 IA2=NSET(IA1) BJU07560 NUM1=NSET(IA1+5) BJU07570 NUM2=NSET(IA2+5) BJU07580 1F(NUM1.NE.24)G0 TO 1800 BJU07590 QSET(IA1+6)=FAD BJU07600 IF(NUM2.NE.33)CALL ERROR(626) BJU07610 QSET(IA2+6)=1. BJU07620 GC TO 1910 BJU07630 1900 CONTINUE BJU07640 IF(NUM2,NE,24)CALL ERROR(627) BJU07650 QSET(IA2+6)=1. BJU07660 IF (NUM1.NE.33) CALL ERROR(628) BJU07670 QSET(IA1+6)=1+-PAD BJU07680 1910 CONTINUE BJU07690 C BJU07700 С ENTER 20-NACV INTO CONDITION CODE FOR ACTIVITY 62-70 BJU07710 С BJU07720 NA(1)=MFE(62) BJU07730 NA(2)=NSET(NA(1)) BJU07740 NA(3)=NSET(NA(2)) BJU07750 DG 2400 I=1,3 BJU07760 IF(NSET(NA(I)+1).EQ.70) GD TO 2401 BJU07770 2400 CONTINUE BJU07780 CALL ERROR (633) BJU07790 2401 NODE=NA(I) BJU07800 XDSTR(NODE+2)=20-NACV BJU07810 С BJU07820 С SET UP COLCT NUMBERS FOR ACTIVITY MILESTONES BJU07830 C BJU07840 IX=1 BJU07850 DO 1850 I=1,14 BJU07860 IACOL(I)=IX BJU07870 IX=IX+1 BJU07860 -----1850 CONTINUE BJU07890 C BJU07900 È SET UP COLCT NUMBERS FOR TIME IN SYSTEM FOR CRIMINAL SINKS BJU07910 С BJU07920 DG 1860 I=1,15 BJU07930 ISCOL(I)=IX BJU07940 IX=IX+1 BJU07950 **1860 CONTINUE** BJU07960 C BJU07970 С SET CUMULATIVE PROBABILITIES BJU07980 BJU07990 C

			•						
	DO 512 I=1,24 SUM=0. NB=NBENCH(I) DO 513 J=1,NB SUM=SUM+PNEXT( PNEXT(I,J)=SUM								BJUGBOOO
	SUMED								BJU08010
	NBENBENCHITY								BJU08020
	DD = T T + T - ND								B3008020
	TO OID OF OF THE	T. 15							BJU08040
	DUN-DUNTFINEXIC	T 1 1 1	-	••	•				BJU08040
	CONTINUE								BJUOBOGO
512	CONTINUE					•			BJU08070
	CALL CPTR(5)								B108080
	CALL CPTR(6)		-						BJU08090
	CALL CPTR(7)								BJU08100
	CALL CPTR(8)								BJU08110
	CALL CPTR(9)								BJU08120
	CALL CPTR(10)								BJU08130
	CALL CPTR(12)								BJU08140
	CALL CPTR(13)								BJU08150
1	CALL CPTR(14)								BJU08160
	CALL CPTR(16)								BJU08170
	CALL CPTR(18)								BJU08180
	CALL CPTR(19)								BJU08190
•	CALL CPTR(20)								BJU08200
	CALL CPTR(21)								BJU08210
	CALL CPTR(22)						_		BJU08220
l	CALL CPIR(23)						-		BJU08230
	CALL CPTR(24)								BJU08240
•	CALL CPTR(25)								BJU08250
	CALL CPTR(26)								BJU08260
	CALL CPTR(27)								EJU08270
•	CALL CPTR(28)								BJU08280
	CALL CPTR(29)								BJU08290
	CALL CPTR(30)								BJU08300
	CALL CPTR(31) .								BJU08310
	CALL CPTR(32)	•							BJU08320
	CALL CPTR(33)								BJU08330
-	CALL CPTR(34)								BJU08340
	CALL CPTR(35)						•		BJU08350
	CALL CPTR(36)								BJU08360
	CALL CPTR(37)				•				BJU08370
	CALL CPTR(39)								BJU08380
	CALL OPTR(39)							••	BJU08390
	CALL CETR(40)								BJU08400
	CALL CFTR(41)								BJU08410
	CALL CPTR(42)								BJU08420
_	CALL CPTR(43)								BJU08430
	CALL CPTR(44)								BJU08440
	CALL CPTR(45)								BJU08450
	CALL CPTR(46)								BJU08460 BJU08470
	CALL OPTR(47)								BJU08470
	CALL CPTR(48)								BJU08480
	CALL OPTR(49)								BJU08490
	CALL CPTR(50)								
_	CALL CPTR(51)								BJU08510
	CALL CPTR(52)				,				BJU08520
	CALL CPTR(53)				1				BJU08530
	CALL CPTR(54)								BJU08540
	CALL CFTR(55)								BJU08550
	CALL CFTR(56)								BJU08560
	CALL CPTR(57)								BJU08570
	CALL CPTR(58)	•							BJU08580
-	CALL CPTR(59)	•							BJU08590
	CALL CPTR(60)								BJU08600
	CALL CPTR(61)								BJU08610
	CALL CPTR(62)								BJU08620
	CALL CPTR(63)								BJU08630
	CALL CPTR(64)								BJU08640
	CALL CPTR(65)								BJU08650
	CALL CPTR(66)								BJU08660
	CALL CPTR(67) .								BJU08670
-	CALL CPTR(68)								BJU08980
	CALL CPTR(69)		•						BJU08690
2500	RETURN								BJU08700
	END								BJU08710
	-								

BJU08030	
BJU08040	
BJU08050 BJU08060	
BJU08070	
B1008080	
BJU08090 BJU08100	
BJU08100	
BJU08120	
BJU08130	
BJU08140 BJU08150	
BJU08160	
BJU08170	
BJU08180 BJU08190	
BJU08200	
BJU08210	
BJU08220 BJU08230	
BJU08230 BJU08240	
BJU08250	
BJU08260	
EJU08270 EJU08280	
BJU08290	
BJN08300	
BJU08310 BJU08320	
BJU08330	
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83008350	
BJU08360 BJU08370	
BJU08380	
BJN08360	
BJU08400 BJU08410	
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BJU08490 BJU08500	
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BJU08520	
BJU08530 BJU08540	
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BJU08570 BJU08580	
BJU08590	
BJU08900	
BJU08610	
BJU08620 BJU08630	
BJU08640	
BJU08650	
BJU08660 BJU08670	
B1008980	
BJU08680	
BJU08700 BJU08710	
00000110	

FUNCTION UF(IFN) BJU08720 COMMON /STRAC/ KTRAC, NFRNT3, NNFTS, KTRCE, KTRCS, NTBTR(50) BJU08730 COMMON /QVAR/ NDE, NFTBU(250), NREL(250), NRELP(250), NREL2(250), BJU08740 *NRUN, NRUNS, NTC(250), PARAM(100,4), TBEG, TNOW BJU08750 COMMON /STAT/ JCELS(120,20), JSINK(120), NBRKB, NBRKS, NCLCT, NDT, BJU08760 *NDTL:NDTU; NHIST; NPD; NQL; NQU; NSINK(120); NSKS; NSKSR; NSKST; NSNR(120) BJU0877.0 *),SNODE(120),SUMA(120,7),WIDTH(120),XLOW(120),XSTUS(120) BJU08780 COMMON /QUE/ BLMAX(100), BSMAX(100), BSMIN(100), IMNQ(100), MAXQS, B.108790 *NAXNS, MFAQ, MFAS, MFEQ(100), MLEQ(100), MFESQ(100), NABA(280), BJU08800 *NPO(100),NPTR(5250),NQAT(5250),NQN,NSAQ(200),NSERE,NSETS(200), BJU08810 *NSN,NSTUS(100),QMAX(100),QMIN(100),SBLK(100),SBUS(100),SQUE(100) BJU08820 #,TLCB(100),TLCQ(100),XBALK(100),NSAQ2(100),LABLS(100,2) B'IN08830 DIMENSION XABA(280) BJU08840 EQUIVALENCE (NABA(1); XABA(1)) BJU08850 COMMON /TRANS/ DESCR(63000),KNOD,MFAD,NDFTR,NDSTR(1300) BU008860 DIMENSION XDSTR(1200), NESCR(63000) BJU08870 EQUIVALENCE (NESCR(1), DESCR(1)), (XDSTR(1), NDSTR(1)) B1008880 COMMON /NODAL/ ID, IM, IMM, LSINK(250), MFA, MFE(250), MFEB(250), MX, BJU08890 *MXX,NDCH(250,2),NDFT(250),NN,NDQ,NSIGN(250),NTYFE(250),LABLN BJU08900 *(550,2) BJU02910 COMMON /GENL/ IFIN, IFRST, ISMRY, ITRAC, LIST80, MON, NAME(12), NCRDR, NDABJU08920 *Y,NNM,NPENT,NPEOJ(12),NSORC(20),NTECS,NTECE,NSEC,NYE,TTFIN B.1108930 COMMON /UCOM1/ ICRT(18), INJ(18), KFLAG(6), KATH BJU08940 COMMON/CMNLP/NJ,NACR,NACV,BETAJ,BETAR,BETAV,WTMNJ,WTMXJ,WTMNR,WTMXBJU08950 1R;WTMNV;WTMXV;NOCSJ;NOCSR;NOCSV;NCSJ;NCSAR;NCSAV;STT;CDJ;CDA;DIJ;DBJU08960 2IA; PC, PF, PD, PJD, PAD, PEDC, PEDF, PEDD, PIV, PIF, PID, PTV, PBTV, PTF, PBTF, PBJU08970 3TD,PBTD,PFC,T(9),IQT(9),U(19),HOLD(4,2),ST(19),CSTAT(6) B.H08980 REAL ATT(11) B.HI08990 DATA ATT/11*0./ BJU09000 UF = -99. BJU09010 50 T0 (1,2,3,4,5,6,7,8,9,10,11,11,13,14,15,16,17,160,19,20,21,22, BJU09020 ж 23,24,25,26,27,28,27,30,31,32,33,34,35,36,37,38,39,40,41, BJU09030 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60, BJU09040 ж * 61,62,63,64,65,66,67),IFN B.109050 BJU09060 ASSIGN ATTORNEY (CRIMINAL) WITH LOWEST UTILIZATION BJU09070 OR WITH EQUAL PROBABILITY IF TNOW EQUALS ZERO BJU09080 B.109090 1 IF(TNOW.GE.0.)GD TO 104 BJU09100 TESTIRUCK) BJU09110 3 = 7 BJU09120 UF=7 BJU09130 RUM=TIRU(7) BJU09140 K=6+NACR BJU09150 BJU09160 10 101 I=7*K IF(TIRU(I).LT.RUM) GO TO 1021 B.IU09170 GO TO 101 BJU09180 1021 UF=I BJU09190 **101 CONTINUE** BJU09200 -00 TO-99 ----BJU09210 BJU09220 RANDOMLY ASSIGN ATTORNEY NUMBER 7-(6+NACR) (CRIMINAL) BJU09230 B.III09240 104 1=UN(70) B.IU09250 IF(I.EQ.(7+NACR))I=6+NACR BJU09260 UF=T BJU09270 RETURN BJU09280 B. 11109290 ASSIGN ATTORNEY (CIVIL) WITH LOWEST UTILIZATION OR WITH BJU09300 EQUAL PROB IF TNOW EQUALS ZERO BJU09310 BJU09320 2 IF(TNOW.GE.0.)GD TO 204 BJU09330 BJU09340 I=20-NACV UF=I BJU09350 RUMIN=TIRU(I) B.1109360 201 IF(TIRU(I).LT.RUMIN)GD TO 202 BJU09370 BJU09380 203 I=I+1 IF(I.LE.19)G0 TO 201 BJU09390 GO TO 99 BJU09400 B.1109410 202 RUMIN=TIRU(I) UF=I BJU09420 GO TO 203 BJU09430

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C
                                                                            BJUC9440
                                                                            BJU09450
С
      RANDOMLY ASSIGN ATTORNEY NUMBER (20-NACV)-19 (CIVIL/U.S.)
С
                                                                            BJU09460
 204
                                                                           BJU09470
      1=UN(71)
      IF(1.EQ.20)1=19
                                                                           BJU09480
      UF=I
                                                                           B.1109490
      RETURN
                                                                           BJU09500
С
                                                                           BJU09510
      ASSIGN JUDGE WITH LOWEST UTILIZATION OR WITH EQUAL
С
                                                                           BJU09520
      PROBABILITY IF TNOW EQUALS ZERO
С
                                                                           BJU09530
C
                                                                           BJU09540
    3 IF(TNOW.GE.0.0)GD TD 3014
                                                                            BJU09550
      I≕1
                                                                            BJU09560
      UF=1
                                                                            BJU09570
      RUMIN=TIRU(I)
                                                                            BJU09580
 3011 IF(TIRU(I).LT.RUMIN)GD TO 3012
                                                                            BJU09590
 3013 1=1+1
                                                                           BJU09600
      IF(I.LE.NJ)GO TO 3011
                                                                            BJU09610
      GO TO 99
                                                                            BJU09620
 3012 RUMIN=TIRU(I)
                                                                            BJU09630
      UF≔I
                                                                            BJU09640
      GO TO 3013
                                                                            BJU09650
С
                                                                            BJU09660
C
      RANDOMLY ASSIGN JUDGE NUMBER 1-NJ.
                                                                            BJU09670
                                                                            BJU09680
С
 3014 I=UN(72)
                                                                            BJU09690
      IF(I.EQ.(NJ+1))I=NJ
                                                                            BJU09700
      UF=I
                                                                            BJU09710
      RETURN
                                                                            BJU09720
С
                                                                            BJU09730
      ASSIGN ATTRIBUTES 4,5,7,8, AND 9 FOR EACH CASE TYPE.
r.
                                                                            BJU09740
£.
                                                                            BJU09750
      CALL GETAT(ATT)
 4
                                                                            BJU09760
      IF(ATT(2),GE,(20-NACV))GD TO 409
                                                                            BJU09770
                                                                           BJU09780
      IF(ATI(2).GE.7)CALL ERROR(358)
      IF(ATT(2).6E.2)GU TO 429
                                                                            BJU09790
                                                                            BJU09800
£
£
      FEDERAL QUESTIONS CASE
                                                                            BJU09810
                                                                           BJU09820
C.
      1-TR(7)
                                                                           BJU09830
      UF 1
                                                                            BJU09840
      RH=DRAND(3)
                                                                            BJU09850
                                                                            BJU09860
С
      TEST FOR AN INJUNCTION (FEDERAL QUESTIONS)
                                                                           BJU09870
С
C
                                                                            BJU09880
      IF(RN.LE.FIF)GO TO 439
                                                                            BJU09890
      ATT(5)=0.
                                                                           BJU09900
      60 TO 449
                                                                           BJU09910
 427
     I=TR(8)
                                                                           BJU09920
      ATT(5)=1
                                                                            BJU09930
                                                                            BJU09940
 449
     1=TR(9)
      IF(I.LT.1)CALL ERROR(333)
                                                                            BJU09950
                                                                            BJU09960
      ATT(7)=I
      I=TR(10)
                                                                            BJU09970
      ATT(8)=1
                                                                            BJU09980
      ATT(9)=0.
                                                                            BJU09990
      GO TO 459
                                                                            BJU10000
                                                                            BJU10010
С
С
      DIVERSITY JURISDICTION CASE
                                                                            BJU10020
С
                                                                            BJU10030
                                                                            EJU10040
 429
      I=TR(67)
      11F = T
                                                                            BJU10050
                                                                           BJ010090
      RN=DRAND(4)
                                                                            BJU10070
C
      TEST FOR AN INJUNCTION (DIVERSITY JURISDICTION)
                                                                            BJU10080
С
                                                                            BJU10090
C
                                                                            BJU10100
      IF(RN.LE. PID)GO TO 469
      ATT(5)=0.
                                                                           BJU10110
                                                                            BJU10120
      GO TO 479
 469
      I=TR(12)
                                                                            BJU10130
                                                                           BJU10140
      ATT(5)=I
                                                                            BJU10150
 479
      I=TR(13)
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наними на полити на простани на простани на напри на полити на прости и страни и страни и са ради. По 1923 и с На полити полити братици стани на полити и по страници станити и полити и полити в страни сполити полити страни

IF(I.LT.1)CALL ERROR(334) BJU10160 ATT(7)=1 BJU10170 I=TR(14) BJU10180 ATT(8)=1 BJU10190 ATT(9)=0. BJU10200 GO TO 459 BJU10210 C BJU10220 С CIVIL/U.S. BJU10230 C BJU10240 409 I=TR(21) BJU10250 UF=I BJU10260 RN=DRAND(2) BJU10270 С BJU10280 Ē BJU10290 TEST FOR AN INJUNCTION (CIVIL/U.S.) Ċ BJU10300 IF(RN.LE. FIV)GD TO 509 8.1010310 ATT(5)=0. BJU10320 GO TO 519 BJU10330 509 I=TR(22) B.IU10340 ATT(5)=1 BJU10350 BJU10360 519 I=TR(23) IF(I.LT.1)CALL ERROR(336) BJU10370 ATT(7) = IBJU10380 BJU10390 I=TR(24) BJU10400 ATT(8)=IBJU10410 I=TR(25) ATT(9)=I BJU10420 459 BJU10430 CALL PUTAT(ATT) GO TO 99 BJU10440 C BJU10450 С TEST IF THE CASE HAS FINISHED PROCESSING. BJU10460 BJU10470 С 5 BJU10480 CALL GETAT(ATT) IF(ATT(2).GE.7.AND.ATT(2).LE.(19-NACV)) GO TO 529 BJU10490 IF(ATT(4).GT.0.)GO TO 529 BJU10500 1F(ATT(5),GT.0.)60 TO 529 BJU10510 IF(ATT(6).0T.0.)60 TO 529 BJU10520 IF(ATT(7).GT.0.)GO TO 529 TU10530 18 (ATT(8).6T.0.)60 TO 529 BJU10540 IF(ATT(9).GT.0.)GO TO 529 BJU10550 UF-0.0 BJU10560 00 TO 99 BJU10570 529 UF=1.0 BJU10580 GO TO 99 BJU10590 C BJU10600 С ROUTE CASE INTO A RANDOMLY SELECTED STAGE. BJU10610 С BJU10620 CALL DETAT(ATT) BJU10630 6 BJU10640 IF(ATT(2),GE,FLOAT(7),AND.ATT(2),LE,(7+NACR)) GD TO 600 12=ATT(5) BJU10650 13-12+411(6) BJU10660 BJU10670 Tearaterr(7) TS=T4+ATT(8) 8.1110680 BJU10690 10-15-677(9) SINGE=DRAND(5)*T6 8.1010700 BJU10710 16(STAGE .0E. T2)GO TO 625 BJU10720 Ċ STAGE = INJUNCTION BJU10730 C BJU10740 C UF=64 B.HH10750 GO TO 99 BJU10760 IF(STAGE .GE. T3)GD TD 630 BJU10770 625 BJU10780 Ċ STAGE = TRIAL BJU10790 C BJU10800 С TRIAL BENCH: 66 BJU10810 TRIAL JURY: 67 С BJU10820 С UF=66 BJU10830 BJU10840 IF(ATT(6) .GE. 1.2)UF=67 CO TO 99 BJU10850 BJU10860 IF(STAGE .GE. T4)60 T0 635 630

BJU10870 C C STAGE = OTHER COURT, BJU10880 С BJU10890 UF=65 BJU10900 GO TO 99 BJU10910 IF (STAGE .GE. T5)GO TO 640 BJU10920 635 C BJU10930 С STAGE = NON-COURTROOM (JUDGE). BJU10940 C BJU10950 BJU10960 UF=68 BJU10970 GO TO 99 640 UF=59 BJU10980 C BJU10990 BJU11000 С STAGE = NON-COURTROOM (ATTORNEY). C BJU11010 BJU11020 IF(ATT(9) ,EQ. 0,)UF=63 С BJU11030 STAGE = EXTERNAL DELAY (REQUIRED). BJU11040 С BJU11050 C GO TO 99 BJU11060 С BJU11070 C CRIMINAL CASE BJU11080 BJU11090 С 600 NEXT=GATRE(6) BJU11100 IF(NEXT.GE.5000) GD TO 610 BJU11110 BJU11120 NEXT=NEXTA(NEXT) 610 UF=NACT(NEXT, TNOW) BJU11130 BJU11140 RETURN С BJU11150 Đ SET THE NUMBER OF THE TRIAL(B) EPISODES. BJU11160 BJU11170 С 7 BJU11180 IC=GATRB(2) BJU11190 TF(IC,GE.(20-NACV))60 TO 70 1F(10.6E.7)60 TO 71 BJU11200 IF (IC.GE.2) GO TO 72 BJU11210 С BJU11220 BJU11230 С PRIVATE CASE (FEDERAL QUESTIONS) BJU11240 С I=TR(26) BJU11250 UF=I+1000 BJU11260 GO TO 99 BJU11270 BJU11280 С PRIVATE CASE (DIVERSITY JURISDICTION) . EJU11290 С BJU11300 С 70 B.IU11310 InTR(27) . . UF=1+1000 BJU11320 BJU11330 60 TO 99 BJU11340 С С CRIMINAL CASE BJU11350 BJU11360 C 71 BJU11370 I=TR(28) UF=1+1000 BJU11380 GU TO 99 BJU11390 BJU11400 С CIVIL/U.S. CASE **BJU11410** С С BJU11420 BJU11430 70 1-TR(29) BJU11440 UF=1+1000 60 10 99 BJU11450 BJU11460 £ SET THE NUMBER OF THE TRIAL(J) EFISODES. BJU11470 С BJU11480 С BJU11490 ទ IC=GATRB(2) BJU11500 IF(IC.GE.(20-NACV))GO TO 80 BJU11510 IF(IC.GE.7)G0 TO 81 IF(IC.GE.2)60 TO 82 BJU11520 BJU11530  $\mathbf{C}$ PRIVATE CASE (FEDERAL QUESTIONS) BJU11540 С BJU11550 C BJU11560 1=TR(30) UF=1+2000 BJU11570 BJU11580 GO TO 99

1.54

C C		PRIVATE CASE (DIVERSITY JURISDICTION)	BJU11590 BJU11600
C			BJU11610
	82	I=TR(31) UF=I+2000	BJU11620 BJU11630
С		GO TO 99	BJU11640 BJU11650
C		CRIMINAL CASE	BJU11660
C	81	I=TR(32)	BJU11670 BJU11680
		UF=1+2000 GO TO 99	BJU11690 BJU11700
C			BJU11710
C C		CIVIL/U.S. CASE	BJU11720 BJU11730
	80	I=TR(33)	BJU11740
		UF=1+2000 GO TO 99	BJU11750 BJU11760
0 0		SELECT BRANCH BASED ON JUDGE ROUTE NODE LOGIC	BJU11770 BJU11780
C			BJU11790
	9	CALL GETAT(ATT) M2=ATT(2)+0.5	BJU11800 BJU11810
. •		M3=ATT(3)+0.5 IF(ATT(2) .LE. 2.)60 TO 975	BJU11820 BJU11830
C			BJU11840
C C		FURLIC-CASE	BJU11850 BJU11860
		IF(ATT(10) .GE. 8.)GD TO 920	BJU11870
C		JUDGE IS NOT CURRENTLY IN AN INJUNCTION.	BJU11880 BJU11890
С		IF(INJ(M3) .EQ. 1)60 TO 990	BJU11900 BJU11910
C		JUDGE IS NOT BEING CALLED TO AN INJUNCTION.	BJU11920 BJU11930
С		IF(ATT(10) .EQ. 7.0R.ATT(10).EQ.6.7)60 TO 960	BJU11940 BJU11950
C C			BJU11960
c		CASE IN PROCESS	BJU11970 BJU11980
С		IF(IDRT(M3) .EQ. 3)60 TO 990	BJU11990 BJU12000
C C		NOT A JUDGE ONLY TRIAL B/J.	BJU12010 BJU12020
		IF(ICRT(M3) .EQ. 2)60 TO 950	BJU12030
0 0		NOT A J/A TRIAL B/J FOR THE JUDGE	BJU12040 BJU12050
C		IF(ICRT(M2) .EQ. 2)60 TO 990	BJU12060 BJU12070
C C		NOY A J/A TRIAL B/J FOR THE ATTORNEY.	BJU12080 BJU12090
- C			EJU12100 EJU12110
C C		TEST WORKLOAD	BJU12120
		IF((ST(M2)-TNOW).LE.0.0)GO TO 901 NRNC=123+M3	BJU12130 BJU12140
		N9C1=73+M3	BJU12150
		NQC2=190+M3 IF(M3.EQ.6)NQC2=221	BJU12160 BJU12170
		WORK=XNINQ(NQNC)+BETAJ*XNINQ(NQC1)+BETAJ*XNINQ(NQC2)	BJU12180
		IF(WORK.LT.1.0)GO TO 902 WTIM=WTMXJ/WORK	BJU12190 BJU12200
	047	IF (WTIM.LT.WTMNJ)WTIM=WTMNJ	BJU12210
C	703	IF(WTIM.LT.(ST(M2)-TNOW))GO TO 990	BJU12220 BJU12230
С С		WAIT FOR ATTY	BJU12240 BJU12250
	901	ICRT(M2)=2	BJU12260
		ICRT(M3)=2 G0 T0 960	BJU12270 BJU12280
	902	WTIM=WTMXJ G0 T0 903	BJU12290 BJU12300
			10012000

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920 CONTINUE IF(INJ(M3) .EQ. 1)GO TO 930 C С JUDGE IS NOT BEING CALLED TO AN INJUNCTION. С IF(INJ(M2) .EQ. 1)00 TO 990 C С REQUIRED ATTORNEY IS NOT IN AN INJUNCTION STATUS. TEST IF ATTORNEY IS IN A COURTROOM STATUS С С IF(ICRT(M2).EQ.2) GO TO 910 С SET J/A TO INJUNCTION PENDING STATUS. C 912 INJ(M2)=1INJ(M3)=1 GO TO 940 С TEST IF THERE IS A TRANSACTION IN G-NODE 40 IF(NREL(40),EQ.0) GD TO 912 210 IQ=LSINK(40)-NSKS NEXT=MFEQ(IQ) С GET ATTRIBUTE 2 OF NEXT 913 IK=NQAT(NEXT) + 1 IF(DESCR(IK).EQ.M2) GO TO 915 C ATTRIBUTE 2 OR 3 IS NOT EQUAL TO M2 OR M3 RESPECTIVELY 916 NEXT=NPTR(NEXT) IF(NEXT.EQ.0) GD TO 912 GO TO 913 C GET ATTRIBUTE 3 OF NEXT 915 IK≔IK+1 IF(DESCR(IK).EQ.M3) GO TO 990 GO TO 916 930 CONTINUE C C TEST TO SEE IF THERE IS A TRANSACTION IN Q-NODE 20. C IF (NREL(20) .EQ. 0)60 TO 990 IQ=LSINK(20)-NSKS NEXT=MFEQ(IQ) С C GET ATTRIBUTE 1 OF NEXT £. 7070 IK=NRAT(NEXT) IF(DESCR(1K) .EQ, ATT(1))GO TO 940 С С ATTRIBUTE 1 IS NOT EQUAL TO ATT(1) C NEXT=NPTR(NEXT) IF(NEXT .ER. 0)60 TO 990 GO TO 7070 940 CONTINUE UF=4. GO TO 99 950 CONTINUE С С TEST TO SEE IF THERE IS A TRANSACTION IN Q-NODE 40. É. IF(NREL(40) ,EQ. 0)GO TO 990 IG=LSINK(40)-NSKS NEXT=MFEQ(IQ) С GET ATTRIBUTE OF NEXT. C С 7071 IK=NOAT(NEXT) IF(DESCR(IK) .EQ. ATT(1))GO TO 960 C ATTRIBUTE 1 IS NOT EQUAL TO ATT(1) С С NEXT=NPTR(NEXT) IF(NEXT .EQ. 0)G0 TO 990 GO TO 7071 CONTINUE 960 UF=3. GO TO 99 975 CONTINUE IF(INJ(M3) .EQ. 1)GO TO 990

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BJU12310

BJU12320

BJU12330

BJU12340

BJU12350

BJU12360

BJU12370

BJU12380

BJU12390

BJU12400

BJU12410

BJU12420

BJU12430

BJU12440

BJU12450

BJU12460

BJU12470

B.1012480

BJU12490 BJU12500

BJU12510 BJU12520

BJU12530

BJU12540

BJU12550

BJU12560

B.III12570

BJU12580

B.0112590

BJU12600 BJU12610

BJU12620

BJU12630

BJU12640

BJU12650 BJU12660

BJU12670

BJU12680

BJU12690 BJU12700

BJU12710

BJU12720 BJU12730

BJU12740 BJU12750

BJU12760

BJU12770

BJU12780

BJU12790 BJU12800

BJU12810

B.1112820

BJU12830

BJU12840

BJU12850

BJU12860

BJU12870

BJU12880 BJU12890

BJU12900

BJU12910

BJU12920

BJU12930

BJU12940

BJU12950

BJU12960

BJU12970

BJU12980

BJU12990

BJU13000

BJU13010

BJU13020 BJU13030

BJU13040 BJU13050 C BJU13060 C JUDGE IS NOT IN AN INJUNCTION STATUS. BJU13070 C BJU13080 IF(ICRT(M3) .EQ. 2)GD TO 990 BJU13090 C BJU13100 BJU13110 C JUDGE IS NOT IN A TRIAL B/J OR O.C. C BJU13120 BJU13130 UF=2. IF(ATT(10).6E.3.0.AND.ATT(10).LE.4.0)ICRT(M3)=1 BJU13140 IF(ATT(10).GE.5.0.AND.ATT(10).LE.7.0)ICRT(M3)=3 BJU13150 BJU13160 IF(ATT(10).GE.8.0.AND.ATT(10).LE.9.0)INJ(M3)=2 -- GO TO 99 83013170 990 CONTINUE BJU13180 HF=1. BJU13190 C BJU13200 FREE JUDGE AND DELAY CASE. BJU13210 C C BJU13220 GO TO 99 BJU13230 С BJU13240 SELECT BRANCH BASED ON ATTORNEY ROUTE NODE LOGIC. С BJU13250 BJU13260 С 10 CALL GETAT(ATT) R.III13270 M2=ATT(2)+0.5 BJU13280 BJU13290 M3=ATT(3)+0.5 Ċ BJU13300 IS THE CASE AN INJUNCTION? EJU13310 С С BJU13320 IF(ATT(10) .GE. 8.)60 TO 1050 BJU13330 C BJU13340 BJU13350 NO...IS THE ATTORNEY IN AN INJUNCTION STATUS? С BJU13360 C BJU13370 IF(INJ(M2) .EQ. 1)60 TO 1090 BJU13380 С IS THE ATTORNEY ON A TRIAL B/J OR 0.C. CASE WHICH IS IN PROCESS? BJU13390 С С BJU13400 IF (ATT(10) .EQ. /.OR.ATT(10).EQ.6.7)GD TO 1030 BJU13410 C B.JU13420 NO...IS THE ATTORNEY STARTING A TRIAL B/J OR D.C. CASE? BJU13430 С BJU13440 С 16(ICRT(M2) .EQ. 2000 TO 1020 BJU13450 C BJU13460 C NO...IS THE JUDGE ON A TRIAL B/J OR AN O.C. CASE? BJU13470 С 8JU13480 BJU13490 IF(ICRT(M3) .GE. 2)GO TO 1090 C BJU13500 THIS TESTS AGAINST THE PROBABILITY OF HAVING THE JUDGE BJU13510 С BJU13520 C AND ATTORNEY TAKE ON A FUBLIC CASE С BJU13530 RN=DRAND(5) BJU13540 BJU13550 IF(RN.LE.PPC) GO TO 1019 BJU13560 N0D0=190+H3 BJU13570 IF(M3,EQ.6)N0DQ=221 IF(NREL(NODQ).LE.0) 60 TO 1019 RJU13580 BJU13590 1URT(M3)=3 BJU13600 GU TO 1090 С BJU13610 BJU13620 Ċ TEST WORKLOAD BJU13630 C 1019 IF((ST(M3)-TNOW).LE.0.0)GD TO 1018 BJU13640 BJU13650 NONC=123+h2 IF(M2.E0.19)NQNC=226 BJU13660 BJU13670 NQC1=73+M2 IF(M2.E0.19)NQC1=224 BJU13680 BJU13690 IF(M2.LE.(19-NACV))GD TO 1017 BJU13700 С BJU13710 ATTORNEY (CIVIL) C BJU13720 C WORK=XNING(NGNC)+BETAV*XNING(NGC1) BJU13730 B.11113740 IF(WORK.LT.1.0)60 TO 1016 WTIM=WTMXV/WORK BJU13750 IF (WTIM.LT.WTMNV)WTIM=WTMNV BJU13760 BJU13770 1015 IF(WTIM.LT.(ST(M3)-TNOW))GO TO 1090 C BJU13780 BJU13790 WAIT FOR JUDGE. SET J/A TO TRIAL B/J C BJU13800 C OR O.C. STATUS С BJU13810

1018 ICRT(M3)=2 BJU13820 BJU13830 ICRT(M2)=2 GO TO 1030 BJU13840 C BJU13850 С ATTORNEY CRIMINAL BJU13860 C BJU13870 BJU13880 1017 WORK=XNING(NGNC)+BETAR*XNING(NGC1) IF(WORK.LT.1.0)GD TO 1014 BJU13890 BJU13900 WTIM=MTMXR/WORK IF(WTIM.LT.WTMNR)WTIM=WTMNR BJU13910 BJU13920 GO TO 1015 1016 WTIM=WTMXV BJU13930 GO TO 1015 BJU13940 BJU13950 1014 WTIM=WTMXR GO TO 1015 BJU13960 B.IU13970 1020 CONTINUE С BJU13980 С TEST TO SEE IF THERE IS A TRANSACTION IN Q-NODE 39. BJU13990 С BJU14000 IF(NREL(39) .EQ. 0)GD TO 1090 BJU14010 B.RJ14020 IQ=LSINK(39)-NSKS BJU14030 NEXT=MFEQ(IQ) BJU14040 С C GET ATTRIBUTE 1 OF NEXT. BJU14050 С BJU14060 1077 IK=NOAT(NEXT) BJU14070 BJU14080 1F(DESCR(IK).EQ.ATT(1))GO TO 1030 BJU14090 С С ATTRIBUTE 1 IS NOT EQUAL TO ATT(1). BJU14100 BJU14110 C ('EXT=NPTR(NEXT) BJU14120 IF(NEXT .. EQ. 0)GO TO 1090 BJU14130 BJU14140 GU TO 1077 1030 CONTINUE BJU14150 BJU14160 12-3. C BJU14170 ROUTE TO Q-NODE 40. BJU14180 С C BJU14190 UO TO 99 BJU14200 B.IH14210 1930 CONTINUE BJU14220 L С YES...IS THE REQUIRED ATTORNEY IN AN INJUNCTION STATUS? B.III14230 Ċ BJU14240 IF(INJ(M2) .EQ. 1)60 TO 1060 BJU14250 BJU14260 C С NO...IS THE REQUIRED JUDGE IN AN INJUNCTION STATUS? BJU14270 C 8.1014280 IF(INJ(M3) .EQ. 1)GO TO 1090 BJU14290 С BJU14300 C TEST IF JUDGE IS IN A COURTROOM STATUS BJU14310 1F(ICRT(M3).EG.2) GO TO 1033 BJU14320 С N5...SET REQUIRED J/A TO INJUNCTION PENDING STATUS. BJU14330 BJU14340 C 1034 IRJ(M3)=1 BJU14350 BJU14360 ILJ(M2)=1 BJU14370 GG TO 1070 TEST IF THERE IS A TRANSACTION IN Q-NODE 39 BJU14390 1033 IF (NREL (39).EQ.0) GD TO 1034 BJU14390 IQ=LSINK(39)-NSKS BJU14400 NEXT=MFEQ(IQ) BJU14410 GET ATTRIBUTE 3 OF NEXT BJU14420 С 1035 IK=NGAT(NEXT) + 2 BJU14430 IF(DESCR(IK).EQ.M3) GO TO 1037 BJU14440 ATTRIBUTE 2 OR 3 IS NOT EQUAL TO M2 OR M3 RESPECTIVELY BJU14450 1036 NEXT=NPTR(NEXT) 8.11114460 IF(NEXT.EQ.0) GO TO 1034 BJU14470 GO TO 1035 BJU14480 ---GET ATTRIBUTE 2 OF NEXT C BJU14490 1037 IK=IK-1 BJU14500 IF(DESCR(IK).EQ.M2)G0 TO 1090 BJU14510 GO TO 1036 BJU14520 1030 CONTINUE BJU14530 C **BJU14540** С TEST TO SEE IF THERE IS A TRANSACTION I Q-NODE 19. BJU14550 С BJU14560 IF(NREL(19) .EQ. 0)GO TO 1090 BJU14570 IQ=LSINK(19)-NSKS BJU14580 NEXT=MFEQ(IQ) BJU14590

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C	ne i Berne and en la companya da companya da ang ang ang ang ang ang ang ang ang an	RJU14600
C	GET ATTRIBUTE 1 OF NEXT.	BJU14610
C 1073	IK=NQAT(NEXT)	BJU14620 BJU14630
	IF (DESCR(IK) .EQ. ATT(1))G0 TO 1070	BJU14640
0		BJU14650
C C	ATTRIBUTE 1 IS NOT EQUAL TO ATT(1).	BJU14660 BJU14670
	NEXT=NFTR(NEXT)	BJU14680
	IF(NEXT .EQ. 0)GD TO 1090 GO TO 1073	BJU14690
1070	CONTINUE	BJU14700 BJU14710
	UF=4.	BJU14720
1090	60 TO 99 UF=1.	BJU14730 BJU14740
	GO TO 99	BJU14750
C		BJU14760
C	SET PRIORITY LEVEL OF PASSED-OVER CASE.	BJU14770 BJU14780
11	T1=GATRB(10)	BJU14790
	IF(TI.EQ. 3.)GO TO 110 IF(TI.EQ. 5.)GO TO 111	BJU14800 BJU14810
• • •	IF(TI.EQ. 8.)GO TO 112	BJU14820
	IF(TI.EQ.6.3) GO TO 113	BJU14830
	IF(TI.EQ.6.5) GO TO 114 UF=TI	BJU14840 BJU14850
	GO TO 99	BJU14860
110	UF=4.	BJU14870
111	GO TO 99 UF=6.	BJU14880 BJU14890
	GO TO 99	BJU14900
112	UF=9. J9 T0 99	BJU14910 BJU14920
113	UF=4,4 .	BJU14930
	GO TO 99	BJH14940
114	UF≈6,6 G0 T0 99	BJU14950 BJU14960
C		BJU14970
C C	O=(L)LN1, (A), LN1 (J)	BJU14980 BJU14990
13	I≈GATRB(2)	BJU15000
	J=GATRB(3) INJ(I)=0	BJU15010 BJU15020
	INJ(J)=0	BJU15030
	GO TO 99 '	BJU15040
C	SET INJ(J)=0, IF INJ(J)=2.	BJU15050 BJU15060
C		BJU15070
14	J=GATRB(3) IF(INJ(J) .EQ. 2)INJ(J)=0	BJU15080 BJU15090
	GO TO 99	BJU15100
C C	1	BJU15110 BJU15120
ι ί	LE (ICRT(J)=0.	BJU15130
15	J=6ATRB(3)	BJU15140
	「CRT(J)=0 G0 T0 99	BJU15150 BJU15160
C		BJU15170
C	17 ATTRIBUTE 10 = 3,4,6.3,6.4 SET ICRT(J),ICRT(A) =0.	BJU15180
С. 16	TK=GATRB(10)	BJU15190 BJU15200
	IF(TK.EQ. 3OR. TK.EQ.4OR.TK.EQ.6.3.OR.TK.EQ.6.4)GD TO 160	BJU15210
C.	GO TO 99	BJU15220 BJU15230
Ċ	SET ICRT(A),ICRT(J)=0.	BJU15240
C 160	I=GATRB(2)	BJU15250 BJU15260
100	J=GATRB(3)	BJU15270
	ICRT(I)=0 ICRT(J)=0	BJU15280 BJU15290
	GO TO 99 ,	BJU15290 BJU15300
C		BJU15310
C	IF ATTRIBUTE 10 = 5,6,7,6.5,6.6,6.7 DECREMENT ATTRIBUTE 6 BY 1.	BJU15320 BJU15330
17	TK=GATRB(10)	BJU15340
	IF(TK.ER.5,.OR.TK.EQ.6OR.TK.EQ.7OR.TK.EQ.6.5.OR.TK.EQ.6.6.0R. *TK.EQ.6.7) GD TO 170	BJU15350 BJU15360
	IF (TK.EQ.6.3.0R.TK.EQ.6.4) TK=9	BJU15370
	CALL FATRB(TK,10) GO TO 99	BJU15380 BJU15390
• • • • • • • • •	DOM: TO THE PROPERTY AND A REPORT OF A DESCRIPTION OF	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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170 I=GATRB(6) BJU15400 AJ=I-1 BJU15410 CALL PATRB(AJ,6) BJU15420 GO TO 99 BJU15430 C BJU15440 С SET ATTRIBUTE 11 FOR INJ/ND-INJ(A). BJU15450 С BJU15460 19 BJU15470 J=GATRB(3) IF(INJ(J) .EQ. 1)GO TO 190 BJU15480 K=GATRB(11) BJU15490 UF=K BJU15500 GO TO 99 BJU15510 190 K=GATRB(11) BJU15520 UF=-K BJU15530 GO TO 99 BJU15540 С BJU15550 С SET ROUTING ATTRIBUTE FOR INJ/NO-INJ(J). BJU15560 С BJU15570 20 CALL GETAT(ATT) BJU15580 С BJU15590 С SET FLAG FOR ATTORNEY WITH COMPLETED TRIAL B/J . BJU15600 C BJU15610 IF(ATT(11) .EQ. -5.)ATT(3)=7. IF(ATT(11) .EQ. 0.)ATT(3)=7. IF(ATT(11) .EQ. 5.)ATT(3)=7. BJU15620 BJU15630 BJU15640 С BJU15650 C SET INJUNCTION ROUTING FLAG FOR IMMEDIATE INJUNCTION. BJU15660 С BJU15670 BJU15680 IF(INJ(M2) .EQ. 1)UF=1. CALL PUTAT(ATT) BJU15690 BJU15700 GO TO 99 С BJU15710 С EXTERNAL DELAY SERVICE TIME BJU15720 BJU15730 С PJU15740 21 1C=GATRB(2) IF(IC .GE. (20-NACV))GO TO 210 **RELETERS** IF(IC .GE. 7)60 TO 211 IF(IC .GE. 2)60 TO 212 BJU15760 BJU15770 С BJU15780 FEDERAL QUESTION CASE C BJU15790 C BJU15800 --- -BJU15810 UF=(R(34) BJU15820 GO TO 99 BJU15830 rC DIVERSITY JURISDICTION CASE BJU15840 BJU15850 С 211 UF=TR(35) BJU15860 GU TO 99 BJU15870 BJU15880 С С CRIMINAL CASE BJU15890 C BJU15900 211 LF=TR(36) BJU15910 GO TO 99 BJU15920 C BJU15930 С BJU15940 CIVIL/U.S. CASE BJU15950 С 210 UF=TR(37) BJU15960 60 TO 99 BJU15970 C BJU15980 BJU15990 PUBLIC INJUNCTION SERVICE TIME. С С BJU16000 22 IC=GATRB(2) BJU16010 BJU16020 ICJ=GATRB(3) IF(IC .GE. (20-NACV))60 TO 220 IF(IC .LT, 7)CALL ERROR(337) BJU16030 BJU16040 C BJU16050 BJU16060 CRIMINAL CASE C С BJU16070 UF=TR(38) BJU16080 BJU16090 GO TO 97 BJU16100 С BJU16110 C CIVIL/U.S. CASE BJU16120 С 220 UF=TR(39) BJU16130 BJU16140 GO TO 97 С BJU16150 BJU16160 OTHER COURTROOM SERVICE TIME С BJU16170 С

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23 IC=GATRB(2) BJU16180 ICJ=GATRB(3) B.11144190 IF(IC .GE, 3)CALL ERROR(338) BJU16200 IF(IC .GE. 2)60 TO 230 BJU16210 Ċ BJU16220 C FEDERAL QUESTION CASE BJU16230 С BJU16240 UF=TR(40) BJU16250 GO TO 98 BJU16260 С BJU16270 С DIVERSITY JURISDICTION CASE BJU16280 £ B.11116290 230 UF=TR(41)BJU16300 GO TO 98 BJU16310 С BJU16320 C PRIVATE INJUNCTION SERVICE TIME BJU16330 Ċ BJU16340 24 IC=GATEB(2) BJU16350 ICJ=GATRB(3) BJU16360 IF(IC .GE. 3)CALL ERROR(339) BJU16370 IF(IC .GE. 2)60 TO 240 BJU16380 С BJU16390 C FEDERAL QUESTION CASE BJU16400 C BJU16410 UF=TR(42) BJU16420 GO 10 98 BJU16430 C BJU16440 C DIVERSITY JURISDICTION CASE BJU16450 C BJU16460 UF=TR(43) 240 BJU16470 GO TO 98 B.IU16480 C BJU16490 С PRIVATE TRIAL SERVICE TIMES BJU16500 C BJU16510 23 IC=GATRB(2) BJU16520 1CJ=GATRB(3) B.1016530 1F(IC .GE. 3)CALL ERROR(340) BJU16540 IF(IC .GE. 2)60 TO 250 B.IU16550 BJU16560 C FEDERAL QUESTION CASE £ B.1014570 C BJU16580 1T-DATEB(S) BJU16590 IF(IT .GE, 2000)60 TO 251 BJU16600 UF=TR(44) . BJU16610 GC TU 98 BJU16620 UF-TR(45) 231 BJU16630 60 TO 99 BJU16640 C BJU16650 C DIVERSITY JURISDICTION CASE BJU16660 BJU16670 С 256II-GATEB(3) B.1016680 IF(IT .GE. 2000)60 TO 252 BJU16690 UFSTR(46) BJU16700 GC TO 98 BJU16710 202 UF=TR(47) BJU16720 GO TO 98 BJU16730 BJU16740 C Ċ PUBLIC TRIAL OR OTHER COURTROOM SERVICE TIMES BJU16750 BJU16760 C 26 IC=GATRB(10) BJU16770 ICJ=GATRB(3) BJU16780 IF(IC .GE. 8)CALL ERROR(342) B.1114790 IF(IC .GE. 5)GO TO 260 BJU16800 IF(IC .LE. 2)CALL ERROR(343) BJU16810 BJU16820 C C OTHER COURTROOM SERVICE TIME BJU16830 С BJU16840 IC=GATRB(2) BJU16850 IF(IC .GE, (20-NACV))GO TO 261 IF(IC .LT. 7)CALL ERROR(344) 8JU16860 BJU16870 BJU16880 C CRIMINAL CASE BJU16890 С BJU16900 £ IA=GATRB(6) BJU16910 BJU16920 IF(IA.EQ.2) GO TO 2601 BJU16930 IF(IA.EQ.3) GO TO 2602 IF (IA.EG.4) GO TO 2603 BJU16940 IF(IA.EQ.8) GO TO 2604 BJU16950 IF(IA.EQ.14)G0 TO 2605 BJU16960 CALL ERROR(361) BJU16970

C		BJU169	80	
Č	GRAND JURY	BJU169	20	
C 2601	UF=TR(52)	BJU170 BJU170		
	GO TO 97	BJU170	20	
C	INDICTMENT	BJU170 BJU170		
Č	INDIGHNERI	EJU170		
2602	UF=TR(16)	BJU170		
С	GO TO 97	BJU170 BJU170		•
0	ARRAIGNMENT	BJU170		
C 2603	UF=TR(63)	BJU171( BJU171)		
	GO TO 97	BJU171	20	
C	RE-ARRAIGNMENT HEARINGS	BJU171		
С		BJU171		
2604	UF=TR(6) GO TO 97	BJU171 BJU171		
C		BJU171		
C	SENTENCING	BJU171 BJU172		
2605	UF=TR(5)	BJU172:	ίο	
C	GO TO 97 .	BJU172: BJU172		
C	CIVIL/U.S. CASE (OTHER COURTROOM)	BJU172	10 .	
C 261	UF=TR(53)	BJU172 BJU172		
لل درويتية	GO TO 97	BJU172		
C C	TRIAL SERVICE TIME	BJU1720 BJU1729		
	TRADE SERVICE (IDE	BJU173(		
260	IC=GATRB(2)	BJU173:		
	IF(IC .GE. (20-NACV))GO TO 262 IF(IC .LT. 7)CALL ERROR(345)	BJU1733 BJU1733		
C	esti estrustati en antini a mitinati s	BJU1734		
C C	CRIMINAL CASE (TRIAL)	BJU1733 BJU1733		
	IT=GATRB(6)	BJU173	°0	
	IF(IT .GE. 2000)60 TO 263 UF=TR(48) .	BJU1738 BJU1739		
	GG TU 77	BJU174(	0	
	UF=TR(49) 50 TO 97	BJU174: BJU1742		
C		BJU1743	50	
	CIVIL/U.S. (TRIAL)	BJU174- BJU1745		
u Zok	I:=GATRB(6)	BJU1746	50	
	IF(IT (GE. 2000)GD TO 264 UF=TR(50)	RJU1741 BJU1740		
	GO TO 97	BJU1749		
264	UF ⇒TR(51)	RJU175(		
D	GO TO 97	BJU175: BJU175:		•
C	NON-COURTROOM SERVICE TIMES (JUDGE)	BJU175	50	
C 27	IC=GATRB(2)	BJU1754 BJU1755		
	ICJ=GATRB(3)	BJU1750	50	
	IF(IC .GE, (20-NACV))60 TO 270 IF(IC .GE, 7)60 TO 271	BJU1757 BJU1758		
-	IF(IC .GE. 2)GO TO 272	BJU1759	20	
C v	FEDERAL QUESTION CASE	BJU176 BJU176		
C		BJU176:	20	
	UF=TR(54) 60 TO 98	BJU176 BJU1764		
C.		BJU176	50	
C	DIVERSITY JURISDICTION	BJU1760 BJU1760		
272	UF=TR(55)	BJU1768	30	
	GO TO 98	BJU176		
C C	CRIMINAL CASE	BJU177( BJU177)	LO	
С		BJU177	20	•
	UF=TR(56) GO TO 98	BJU177 BJU177		
C		BJU177	50	4.
C	CIVIL/U.S. CASE	BJU1776 BJU177		
-	UF=TR(57)	BJU1770	30	•
	GO TO 98 C-128	BJU1779	20	· · · · · · · · · · · · · · · · · · ·

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	C	na se en la companya de la companya La companya <del>de la companya de la com</del> p	T. 1114 TO D. D. D.
1.0		NON-COURTROOM SERVICE TIMES (ATTORNEY)	BJU17800 BJU17810 BJU17820
	28	IC=GATRB(2) IF(IC .GE. (20-NACV))GO TO 280 IF(IC .LT. 7)CALL ERROR(341)	BJU17830 BJU17840 BJU17850
	C C C	CRIMINAL CASE	BJU17860 BJU17870 BJU17870
		IA=GATRB(6) IF(IA.EQ.1) GO TO 2801 IF(IA.EQ.5) GO TO 2802 IF(IA.EQ.6) GO TO 2803 IF(IA.EQ.7) GO TO 2804 IF(IA.EQ.7) GO TO 2805 IF(IA.EQ.13) GO TO 2806 CALL ERROR(362)	BJU17880 BJU17890 BJU17900 BJU17910 BJU17920 BJU17930 BJU17940 BJU17950 BJU17950
	C C C	INVESTIGATION	BJU17970 BJU17980 BJU17990
	11.0	UF=TR(58) GD TO 2807	BJU18000 BJU18010
	C C C	INFORMATION	BJU18020 BJU18030
		UF=TR(20) G0 T0 2807	BJU18040 BJU18050 BJU18060
	C C	INITIAL CASE PREPARATION	BJU18070 BJU18080
-	C 2803	UF=TR(65) G0 TO 2807	RJU18090 RJU18100 RJU18110
	C	FLEA BARGAINING NEGOTIATIONS	BJU18120 BJU18130
	C 2804	UF=TR(66) G0 T0 2807	BJU18140 BJU18150 BJU18160
	C C	FINAL CASE PREPARATION	BJU18170 BJU18180
	C 2905	UF=TR(68) Su TO 2807	BJU18190 BJU18200 BJU18210
	С С С	PREPARATION FOR SENTENCING	BJU18220 BJU18230 BJU18240
•	2806 2807	UF=TR(69) GU TO 2807 ST(IC)=TNOW+UF RETURN	BJU18250 BJU18260 BJU18270 BJU18280
	C C C	CIVIL/U.S. CASE	BJU18290 BJU18300 BJU18310
	290	UF=TR(59) ST(IC)=TNOW+UF G0 T0 99	BJU18320 BJU18330 BJU18340
	С С С	TEST FOR A TRIAL.	BJU18350 BJU18360 BJU18370
•	29	IC=GATRB(2) IF(IC .GE. (20-NACV))GO TO 290 IF(IC .GE. 7)CALL ERROR(359) IF(IC .GE. 2)GO TO 292	BJU18380 BJU18370 BJU18400 BJU18410 BJU18420
	C C C	FEDERAL QUESTION CASE	BJU18430
		RN=DRAND(3) IF(RN .LE, FTF)GO TO 293	- 18JU18450 BJU18460 BJU18470
	C C C	NO TRIAL	BJU18420 BJU18480 BJU18490
		UF=0. GO TO 99	BJU18500 BJU18510 BJU18520
	C C C	TRIAL	BJU18530 BJU18540
	293	UF=1.0 GO TO 99	BJU18550 BJU18560 BJU18570
	C C C	DIVERSTIY JURISDICTION CASE	BJU18580
	292	RN=DRAND(4) IF(RN .LE. FTD)GO TO 294 C-129	BJU18600 BJU18610

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C	NO TRIAL	E	JU18620 JU18630
С	UF=0. Go to 99	B	JU18640 JU18650 JU18660
C C C	TRIAL	B	JU18570 JU18580
294	UF=1. GC TC 99	в	JU18690 JU18700 JU18710
C C	CIVIL/U.S. CASE	B	JU18720 JU18730
C 290	RN=DRAND(2) IF(RN .LE. FTV)GO TO 296	B	JU18740 JU18750 JU18760
C C C	NO TRIAL	B	JU18770 JU18780
C	UF=0. GO TO 99	R	JU18790 JU18800 JU18810
C C C	TRIAL	в	JU18820 JU18830 JU18840
296	UF=1. GO TO 99	. B	JU18850 JU18860
С С С	ASSIGN A BENCH OR JURY TRIAL.	B	JU18870 JU18880 JU18890
30	IC≕GATRB(2) IF(IC .GE. (20-NACV))GD TO 300 IF(IC .GE. 7)CALL ERROR(360) IF(IC .GE. 2)GO TO 302	e B B B B	JU18900 JU18910 JU18920 JU18930
C C	FEDERAL QUESTION CASE	в	UU18940 UU18950 UU18960
	EN-DRAND(3) IF(RN .LE. PBTF)60 TO 303	B. B	JU18970 JU18980
C C C	JURY TRIAL	в	JU18990 JU19000 JU19010
	UP≈2. 169 10 99	B	JU19020 JU19030
С С С	SCHCH TRIAL	в	UU19040 UU19050 UU19060
303 C	UF=1. GD TO 99	B	JU19070 JU19080 JU19090
C C	DIVERSITY JURISDICTION CASE	B	JU19100 JU19110
acia C	RN=DRAND(4) IF(RN .LE. PBTD)GO TO 304	B	JU19120 JU19130 JU19140
C C	JURY TRIAL	в	JU19150 JU19160
C	UF=2. 60 TO 99	в	JU19170 JU19180 JU19190
C C	BENCH TRIAL	В	JU19200 JU19210
304 C	UF≕1. G0 T0 99	B	JU19220 JU19230 JU19240
C C	CIVIL/U.S. CASE	B	JU19250 JU19260
300 C	RN=DRAND(2) IF(RN .LE. PBTV)GO TO 306	B	JU19270 JU19280 JU19290
C C	JURY TRIAL	B	JU19300 JU19310
С	UF=2. G0 T0 99	B	JU19320 JU19330 JU19340
C C	BENCH TRIAL	B B	JU19350 JU19360
306 C -	UF=1. GO TO 99	B.	JU19370 JU19380 JU19390
C C C	ASSIGN ATTRIBUTES 3,4,5,6,7,8,9 FOR DIVERSITY JURISDICT CASES INVOLVING NO JUDGE SERVICE.	ION B	JU19400 JU19410 JU19420

• .		· · · · · · · · · · · · · · · · · · ·	անկատինդինչներներին՝ գետասակող հետենց է հետ
	31	CALL GETAT(ATT)	BJU19430
		I=TR(60)	BJU19440
		IF(I.LT.1)CALL ERROR(346)	BJU19450
	310	UF=I ATT(9)=0.	BJU19460
	311	$\Delta TT(T) = 0$ .	BJU19470 BJU19480
		ATT(5)=0. ATT(6)=0.	BJU19490
		ATT(6)=0.	BJU19500
		ALL()=0.	BJU19510
		ATT(8)=0. Call Putat(ATT)	BJU19520 BJU19530
		GO TO 99	BJU19540
	C		BJU19550
	C	ASSIGN ATTRIBUTES 3,4,5,6,7,8,9 FOR FEDERAL QUESTION CASES	BJU19560
	È.	INVOLVING NO JUDGE SERVICE.	BJU19570 BJU19580
	32	CALL GETAT(ATT)	BJU19590
		I=TR(61)	BJU19600
		IF(I.LT.1)CALL ERROR(347)	BJU19610
		UF=I G0 T0 310	BJU19620 BJU19630
•	C		BJU19640
	C	ASSIGN ATTRIBUTES 3,4,5,6,7,8,9 FOR CIVIL/U,S. CASES	BJU19650
	5	INVOLVING NO JUDGE SERVICE.	BJU19660
	C 33	CALL GETAT(ATT)	BJU19670 BJU19680
		I=TR(62)	BJU19680 BJU19690
		IF(I.LT.1)CALL ERROR(348)	BJU19700
		UF=I	BJU19710
			BJU19720
		ATT(9)=J 30 TO 311	BJU19730 BJU19740
	C	•	** 1114 CM/CA
	С	UF=0,IF A4=0 OR IF IT IS A CRIMINAL CASE, OTHERWISE UF=1	BJU19760
	C		BJ019770-
	- 3		BJU19780
		14 *001 RD(4) TC=864TRB(2)	BJU19790 BJU19800
		IF(I4,ED,O) UF=0.0	BJU19810
		IF(IC.GE.7.AND.IC.LE.(19-NACV)) UF=0.0	BJU19820
	0	I4=GATRB(4) IC=GATRB(2) IF(I4.E0.0) UF=0.0 IF(IC.GE.7.AND.IC.LE.(19-NACV)) UF=0.0 RETURN ASSIGN A UNIQUE NUMBER TO EACH TRANSACTION BEGINNING WITH 1	BJU15830
	C C	ASSIGN A UNIQUE NUMBER TO EACH TRANSACTION BEGINNING WITH 1	BJU19840 BJU19850
	č		BJU19860
	1 35	KATH=KATH+1	BJU19870
			BJU19880
	С	GU TO 99	BJU19890 BJU19900
	č	FOTH THE ATTORNEY AND THE JUDGE ARE BUSY	BJU19910
	C		BJU19920
	36	IA=GATRB(2)	BJU19930
		IF (IA.LE.2) CALL ERROR (350) IJ=GATRB(3)	BJU19940 BJU19950
		IF (IJ.LE.0)CALL ERROR(351)	BJU19960
		CALL TIM(1.0, IA)	BJU19970
		CALL TIN(1.0,IJ)	BJU19980
	с	GO TO 99	BJU19990 BJU20000
	С С	BOTH THE ATTORNEY AND THE JUDGE ARE IDLE	BJU20010
	C		BJU20020
	37	IAHGATRB(2)	BJU20030
		IF(IA.LE.2) CALL ERROR(352) IJ=GATRB(3)	BJU20040 BJU20050
		IF(IJ.LE.O) CALL ERROR(353)	BJU20020
		CALL TIN(0.0,IA)	BJU20070
		CALL TIM(0.0,IJ)	BJU20080
	C	GO TO 99	BJU20090 BJU20100
	č	ONLY THE ATTORNEY IS BUSY	BJU20110
	č	• • • • • • • • • • • • • • • • • • •	BJU20120
	38		BJU20130
		CALL DETAT(ATT)	BJU20140
	701	IF(ATT(2).NE.7.) GO TO 7010 D CONTINUE	BJU20150 BJU20160
		IF(IA.LE.2)CALL ERROR(354)	BJU20170
		CALL TIM(1.0, IA)	BJU20180
		GO TO 99	BJU20190 BJU20200
	C C	ONLY THE ATTORNEY IS IDLE	BJU20210
:			BJU20220
		C-131	• •

39 IA=GATRB(2) BJU20230 IF(IA,LE,2) CALL ERROR (355) BJU20240 CALL TIM(0.0, IA) BJU20250 GO TO 99 BJU20260 C BJU20270 ONLY THE JUDGE IS BUSY C BJU20280 40 IJ=GATRB(3) BJU20290 IF (IJ.LE.O) CALL ERROR (356) BJU20300 CALL TIM(1.0,IJ) BJU20310 GO TO 99 BJU20320 С B.IU20330 С ONLY THE JUDGE IS IDLE BJU20340. C BJU20350 41 IJ=GATRB(3) BJU20360 1F (IJ.LE.O) CALL ERROR (357) BJU20370 CALL TIM(0.0,IJ) BJU20380 GO TO 99 BJU20390 C BJU20400 С CLEAR USER STATISTICS ARRAY BJU20410 С BJU20420 42 CALL TIMC(0) BJU20430 CALL COLC(0) B.III20440 GO TO 99 BJU20450 С BJU20460 С DECREMENT A4 BY 1 UNLESS A CRIMINAL CASE BJU20470 C BJU20480 43 IC=GATRB(2) BJU20490 I4=GATRB(4) BJU20500 UF=I4-1 BJU20510 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=14 BJU20520 RE, TURN BJU20530 BJU20540 C DECREMENT AS BY 1 UNLESS A CRIMINAL CASE BJU20550 fBJU20560 14 IC-GATRD(2) BJU20570 IS-GATRB(5) B.IU20580 UF=15-1 BJU20590 BJU20600 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=15 RETURN BJU20610 С BJU20620 DECREMENT A7 BY 1 UNLESS A CRIMINAL CASE BJU20630 C BJU20540 C BJU20650 45 IU=6ATR8(2) 17=GATRB(7) BJU20660 BJU20670 Ur 17-1 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=I7 BJU20680 A10=GATRB(10) BJU20690 1F(A10.EQ.9) A10=6.3 BJU20700 CALL PATRE(A10,10) BJU20710 RETURN' BJU20720 BJU20730 SET A6 TO ZERO UNLESS A CRIMINAL CASE, IN WHICH CASE BJU20740 С SET AS TO ITSELF 53020750 C BJU20760 С 46 IC=GATRB(2) BJU20770 UF=0.0 BJU20780 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=GATRB(6) BJU20790 BJU20800 RETURN С BJU20810 DECREMENT AS BY 1 UNLESS A CRIMINAL CASE BJU20820 C BJU20830 47 IC=GATRB(2) BJU20840 IS=GATRB(8) BJU20850 UF=18-1 BJU20860 BJU20870 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=18 RETURN BJU20880 BJU20890 C С DECREMENT A9 BY 1 UNLESS A CRIMINAL CASE BJU20900 BJU20910 C 48 IC=GATRB(2) BJU20920 BJU20930 19=GATRB(9) B.11120940 UF=19-1 IF(IC.GE.7.AND.IC.LE.(19-NACV))UF=19 BJU20950 BJU20960 RETURN С BJU20970 BJU20980 С С EXTERNAL DELAY BASED ON CASE TYPE BJU20990 C BJU21000 49 IC=GATRB(2) BJU21010 IF(IC.GE.(20-NACV))60 TO 490 BJU21020 IF(IC.GE.7)CALL ERROR(363) BJU21030 C-132 IF(IC.GE.2)60 TO 492 BJU21040 

(	2			BJU21050
(	5.		FEDERAL QUESTION CASE	BJU21060
	<b>.</b>		RN=DRAND(3)	BJU21070 BJU21080
	3		UF=0.0	BJU21090 BJU21100
	3		EXTERNAL DELAY WHEN UF=1.0	BJU21110 BJU21120
			IF(RN.LE.PEDF)UF=1.0 RETURN	BJU21130 BJU21140
(	2			BJU21150
			DIVERSITY JURISDICTION	BJU21160 BJU21170
		492	RN=DRAND(4) UF=0.0	BJU21180 BJU21190
			EXTERNAL BELAY WHEN UF=1.0	BJU21200 BJU21210
. (	Ç		1F(RN.LE.FEDD)UF=1.0	BJU21220 BJU21230
1	D		RETURN	BJU21240 BJU21250
Ĩ	C		CIVIL / US CASE	BJU21260
' (	0	490	RN=DRAND(2)	BJU21270 BJU21280
(	C		UF=0.0	BJU21290 BJU21300
1			EXTERNAL DELAY WHEN UF=1.0	BJU21310
			IF(RN.LE.FEDC)UF=1.0 GO TO 99	BJU21320 BJU21330
	8 D		SET QUEUE RANKING FOR EXTERNAL DELAY	BJU21340 BJU21350
	¢	50	UF=0.0	BJU21360 BJU21370
			TEST IF A SPEEDY TRIAL CASE	BJU21380 BJU21390
í	D			BJU21400
		501	1F(GATRB(4),LT.0.0)UF=GATRB(10) RETURN	BJU21410 BJU21420
. (			SET QUEUE RANKING FOR INJUNCTION	BJU21430 BJU21440
	C	4		BJU21450 BJU21460
		4.J .T.		BJU21470
(			SET QUEUE, RANKING FOR OTHER COURTROOM	BJU21480 BJU21490
•(	C .	52	UF=3.0	BJU21500 BJU21510
(	C		GO TO 501	BJU21520 BJU21530
. (			SET QUEUE RANKING FOR TRIAL	BJU21540 BJU21550
		33	UF=5.0 60 TO 501	BJU21560 BJU21570
ļ				BJU21580
			SET QUEUE RANKING FOR NONCOURTROOM (JUDGE)	BJU21590 BJU21600
		.j4	UF=2.0 60 TO 501	BJU21610 BJU21620
			SET QUEUE RANKING FOR NONCOURTROOM (ATTORNEY)	BJU21630 BJU21640
	Ĉ	65	UF=1.0	BJU21650 BJU21660
			GD TD 501	BJU21670
(			SET QUEUE RANKING FOR TRIAL IN PROGRESS	BJU21680 BJU21690
		56	UF=7.0 IF(GATRB(4),LT.0.0)UF=6.7	BJU21700 BJU21710
(	C		RETURN	BJU21720 BJU21730
(		- -	IS THIS THE BEGINNING OF A SPEEDY TRIAL	BJU21740 BJU21750
		57		BJU21760
•			QR=GATRB(10) IF(QR.EQ.6.5.0R.QR.EQ.6.6)60 TO 570	BJU21770 BJU21780
i	C.		RETURN	BJU21790 BJU21800
· (			TEST TIME SINCE ARRAIGNMENT AGAINST SPEEDY TRIAL TIME THRESHOLD (STT) (A4 = -(TIME OF ARRAIGNMENT))	BJU21810 BJU21820
	C	e-1^		BJU21830 BJU21840
	0	<b>U</b> 20		BJU21850
			DID NOT INITIATE SPEEDY TRIAL WITHIN TIME LIMIT	BJU21840 BJU21870
				•

	-/** 40-*4-* h is	διαμός του	
		<pre>UF=0.0 RETURN INTERCURRENT CHANGES TRIGGERED BY AVERAGE WAITING TIMES AND AVERAGE QUEUE LENGTHS (IF ANY ONE THRESHOLD IS PASSED ALL INTERCURRENT CHANGES ARE MADE.) AVGJ=0.0 AVGK=0.0 AVGK=0.0 AVGD=0.0 AVGD=0.0 AVGD=0.0 AVGD=0.0 AVGD=0.0 AVGD=0.0 AVGD=0.0 XNJ=NJ XNAR=NACR XNAV=NACU NLB=NSKS+1 LQL=NSKS+NQN D0 581 I=NLB,LQL IF(NSINK(I).EG.40)G0 T0 583 IF(NSINK(I).GE.74.AND.NSINK(I).LE.(73+NJ)) G0 T0 585 IF(NSINK(I).GE.90.AND.NSINK(I).LE.(79+NACR)) G0 T0 586 IF(NSINK(I).GE.93-NACV).AND.NSINK(I).LE.91) G0 T0 587 IF(NSINK(I).GE.72-NACV).AND.NSINK(I).LE.91) G0 T0 587</pre>	BJU21880
		RETURN	BJU21890
C			BJU21900
C		INTERCURRENT CHANGES TRIGGERED BY AVERAGE WAITING TIMES	BJU21910
C C		AND AVERAGE RUEUE LENGTHS (IF ANY UNE THRESHULD IS PASSED	RJU21920
č		ALL INTERCORNENT CHANGES ARE MADE.)	BJU21730 BJU21730
5	58	AVGJ=0.0	BJH21950
	00	AUGK=0.0	BJU21960
			BJU21970
		AVGM=0.0	BJU21980
			BJU21990
		AVG0=0.0	BJU22000
		AVGP=0.0	BJU22010
			BJU22020
		XNAR=NACR	BJU22030
			BJU22040
			BJUZ2030
		LULENSNSTNUN	BJU22060 DJU22070
		DU BEL I-NERIELE Telnetnicit en zoign to 507	B 1133080
		$\frac{1}{1} \left( \frac{1}{1} + 1$	R.11122090
		IF (NSTNK(I), GE, 74, AND. NSTNK(I), LE. (73+NJ)) GO TO 585	BJU22100
		IF(NSINK(I),GE.BO.AND.NSINK(I).LE.(79+NACR)) GO TO 584	BJU22110
		IF (NSINK(I), GE. (93-NACV), AND. NSINK(I), LE. 91) GO TO 587	BJU22120
		IF (ROINK(I)+EU+224) OU FU DO/	ちししんようろく
		IF(NSINK(I).GE.124.AND.NSINK(I).LE.(123+NJ)) GO TO 588	BJU22140 BJU22150
			BJU22150
		IF(NSINK(I).GE.(143-NACV).MND.NSINK(I).LE.141) GD TO 5810	BJU22160
		IF(NSINK(I),EQ.226) GO TO 5810	BJU22170
		IF(NSINK(I).GE.130.AND.NSINK(I).LE.(129+NACR)) GO TO 589 IF(NSINK(I).GE.(143-NACV).AND.NSINK(I).LE.141) GO TO 5810 IF(NSINK(I).EQ.226) GO TO 5810 IF(NSINK(I).GE.191.AND.NSINK(I).LE.(190+NJ)) GO TO 5811 IF(N.LED.6.AND.NSINK(I).FD.221) GO TO 5811	BJU22180
		1P(NJ.EU.8.AND.NSINK(I).EU.221) GU (U 5811	BU022190
'n			BJU22200
C		AUEBAGE MATTING TIME	D 0022210
č		AVERAGE WAITING TIME	EU122220
C C C			BJU22240
č		TOC-JIG(TIME)	BJU22250
č			BJU22260
	533	IF(107(1),EQ,0)GO TO 581	BJU22270
		NTEMP=35	BJU22280
Ľ		AGE AVEGT (N TEMP)	BJU22290
		WRITE(G)7012) AUTYK -	BJU22300
Ĩ	017	FORMAT(1X,F10,5,1X,12)	BJU22310
		IF (AWT. GT. (NTEMP-38)) GO TO 5813	BJU22320
-		60 TO 581	BJU22330
C C		IF (NSINK(I).GE.191.AND.NSINK(I).LE.(190+NJ)) GO TO 5811 IF (NJ.EQ.6.AND.NSINK(I).EQ.221) GO TO 5811 GJ TO 581 AVERAGE WAITING TIME TOC-JEG(TIME) IF (IQT(1).EQ.0)GO TO 581 NTEMP=35 AUI-AVEWT(NIENP) WRITE(577017) AWT,K FGRMA1(12,FI0.5,12,12) IF (AWT.GT.d(NTEMP=38))GO TO 5813 GU TO 581 TOC - ATT(TIME)	BJU22340 BJU22340
υ C		TOG - ATTCLINE)	BJU22360
6	⊼A	10(IQT(2),EQ.0)GO TO 581	BJU22370
	50° 306 ° 1	NYEMP=40	BJU22380
		NULSINK(40)-NSK5	BJU22390
		G0 T0 5814	BJU22400
С			- BJU22410
C		AVERAGE QUEUE LENGTHS	BJU22420
С		3	BJU22430
С			BJU22440
ç		JDG - CT	BJU22450
С	5.00	AVGJ=AVGJ+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22460
	-00	GO TO 581 -	BJU22470 BJU22480
С			BJU22480 BJU22490
č		ATT-CT (CRIMINAL)	BJU22500
	86	AVGK=AVGK+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22510
-	· -	GO TO 581	BJU22520
С			BJU22530
C		ATT - CT (CIVIL)	BJU22540
С			BJU22550
	587	AVGL=AVGL+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22560
-		GO TO 581	BJU22570
C			BJU22580
C		JDG - NC	BJU22590
С	500	AVGM=AVGM+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22600 BJU22610
	202	GO TO 581	BJU22620
С			BJU22630
č		ATT - NC (CRIMINAL)	BJU22640
č			BJU22650
-	589	AVGN=AVGN+(TINIR(NSINK(I))/(TNOW-TBEG))	BJU22660
		GO TO 581	BJU22670
С			BJU22680
С		ATT-NC (CIVIL)	BJU22690
<u>.</u>		ATT-NC (CIVIL)	BJU22700

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	and the second	
5810	AVG0=AVG0+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22710
0010	GO TO 581	BJU22720
C		BJU22730
C C	PRI - J	BJU22740
5811	AVGP=AVGP+(TINIQ(NSINK(I))/(TNOW-TBEG))	BJU22750 BJU22760
	CONTINUE	BJU22770
	IF(IQT(3).EQ.0)GD TO 5815	BJU22780
	AVGJ=AVGJ/XNJ IF(AVGJ.GT.T(3))60 TO 5813	BJU22790
. 5815	IF(IQT(4),EQ.0)60 TO 5816	BJU22800 BJU22810
0010	ÀVGK=AVGK/XNAR	BJU22820
	IF(AVGK.GT.T(4))GO TO 5813	BJU22830
5816	IF(IQT(5),EQ+0)GD TO 5817	BJU22840
	AVGL=AVGL/XNAV IF(AVGL.GT.T(5))GD TO 5913	BJU22850 BJU22860
5817		BJU22870
	IF(IQT(6),EQ;0)GO TO 5818 AVGM=AVGM/XNJ	BJU22880
5010	IF(AVGM.GT.T(6))GO TO 5813 IF(IQT(7).EQ.0)GO TO 5819	BJU22890 BJU22900
0010	AVGN=AVGN/XNAR	BJU22910
	IF(AVGN.GT.T(7))GO TO 5813	BJU22920
5819	IF(IQT(8),EQ.0)GO TO 5820	BJU22930
	AVGO=AVGO/XNAV IF(AVGC,GT,T(8))GO TO 5913	BJU22940 BJU22950
5920	IF(IQT(9),EQ.0)GO TO 5821	BJU22960
	AVGF=AVGP/XNJ ·	BJU22970
in the second	IF(AVGP.GT.T(9))GO TO 5813	BJU22980
08%1	UF=1.0 RETURN	BJU22990 BJU23000
5813	CALL CHNG	BJU23010
	WRITE(6,7002) AVGJ,AVGK,AVGL,AVGM,AVGN,AVGD,AVGP	BJU23020
7002	FORMAT(7(1X,F10.5))	BJU23030
5822	WRITE(6,5822) TNOW FORMAT(/5x,34HINTERCURRENT CHANGES MADE AT TIME ,F8.3)	BJU23040 BJU23050
		BJU23040
	RETURN	BJU23070
C C	SET ST(I) ACCORDING TO JUDGE'S INTERNAL DELAY	BJU23080 BJU23090
C	SET STAT ACCOUNTING TO SOLDE S INTERNANC BELAT	BJU23100
59	ICJ=GATRB(3)	BJU23110
	ST(ICJ)=TNONTDIJ	BJU23120
	UF=DIJ RETURN	BJU23130 BJU23140
LC		BJU23150
C	SET ST(I) ACCORDING TO ATTORNEY'S INTERNAL DELAY	BJU23160
<b>0</b>	ICA=GATRB(2)	BJU23170 BJU23180
	ST(ICA)=TNOWFDIA	BJU23190
_	UF=DIA	BJU23200
c ·	RETURN.	BJU23210
C C	DUMMY UF	BJU23220 BJU23230
c		BJU23240
	RETURN	BJU23250
C C	FREEING JUDGE (NC)	BJU23260 BJU23270
č		BJU23280
<u></u>	IC=GATEB(3)	BJU23290
	IF(NCSJ.EQ.1)GO TO 621 IF(INJ(10).EQ.1)GO TO 622	BJU23300 BJU23310
	IF(ICRT(IC),EQ.2.0R.ICRT(IC),EQ.3)G0 T0 622	BJU23320
621	NQNC=123+IC	BJU23330
-	NQC1=73+IC	BJU23340
1. A.	NQC2=190+IC IF(IC.EQ.6)NQC2=221	BJU23350 BJU23360
	IF(BETAJ#XNING(NGC1)+BETAJ#XNING(NGC2).GE.XNING(NGNC))GO TO 622	BJU23370
C		BJU23380
C	SEND JUDGE TO NC	BJU23390 BJU23400
<b>.</b> .	UF=0.0	BJU23410
	RETURN	BJU23420
_ C		BJU23430
C C	SEND JUDGE TO C	BJU23440 BJU23450
	UF=1,0	BJU23460
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	RETURN	BJU23470
	EDEETNE ATTOENEY (NO)	BJU23480 BJU23490
C	FREEING ATTORNEY (NC)	BJU23500
	IC=GATRB(2)	BJU23510
	IF(IC,LE.(19-NACV))GO TO 633	BJU23520
C C	ATTORNEY (CIVIL)	BJU23530 BJU23540
č	Cal35	BJU23550

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IF(NCSAV.EQ.1)GO TO 631
                                                                            BJU23560
  632 IF(INJ(IC).E0.1)60 TO 637
                                                                            BJU23570
  638 IF(ICRT(IC).EQ.2)00 TO 637
                                                                            BJU23580
                                                                            BJU23590
  631 NQNC=123+IC
      IF(IC.EQ.19)NQNC=226
                                                                            BJU23600
                                                                            BJU23610
      NOC1=73+IC
      IF(IC.EQ.19)NQC1=224
                                                                            BJU23620
      IF(IC.LE.(19-NACV)) GD TD 634
                                                                            BJU23630
                                                                            BJU23640
      IF(BETAV*XNING(NGC1).GE.XNING(NGNC))GO TO 637
      GO TO 636
                                                                            BJU23650
                                                                            BJU23660
С
С
      ATTORNEY (CRIMINAL)
                                                                            BJU23670
С
                                                                            BJU23680
  633 IF(NCSAR, EQ.1) GO TO 631
                                                                            BJU23690
      GO TO 632
                                                                            BJU23700
  634 IF(BETAR*XNINQ(NQC1),GE,XNINQ(NQNC))GO TO 637
                                                                            BJU23710
С
                                                                            BJU23720
C
      SEND ATTORNEY TO NC -
                                                                            BJU23730
C
                                                                            BJU23740
  636 UF=0.0
                                                                            BJU23750
                                                                            BJU23760
      RETURN
С
                                                                            BJU23770
С
      SEND ATTORNEY TO C
                                                                            BJU23780
                                                                            BJU23790
С
  637 UF=1.0
                                                                            BJU23800
      RETURN
                                                                            BJU23810
С
                                                                            BJU23820
С
      FREEING JUDGE (END OF TRIAL)
                                                                            BJJ23830
Ċ
                                                                            BJU23840
                                                                            BJU23850
С
С
      INJ STATUS HAS PREVIOUSLY BEEN TESTED
                                                                            BJU23860
C
                                                                            BJU23870
                                                                            BJU23880
   6A IC=GATRB(3)
                                                                            BJU23890
      NONC=123+IC
                                                                            BJU23900
      NQC1=73+IC
                                                                            B.IU23910
      NQC2=190+IC
      IF(IC,EQ.6)NQC2=221
                                                                            BJU23920
      IF (BETAJ#XNING(NQC1)+BETAJ#XNING(NQC2).GE.XNING(NQNC))GO TO 641
                                                                            BJU23930
                                                                            BJU23940
      SEND JUDGE TO NC
                                                                            BJU23950
С
                                                                            BJU23960
С
                                                                            BJU23970
      UF=-1.0
                                                                            BJU23980
      GO TO 642
                                                                            BJU23990
C
      SEND JUDGE TO C
                                                                            HJU24000
C
  641 UF=1.0
                                                                            BJU24010
С
                                                                            BJU24020
С
      CHECK IF THIS IS A PUBLIC CASE
                                                                            BJU24030
С
                                                                            BJU24040
                                                                            BJU24050
  641 IF(GATRB(2),GT,2,0)UF=UF*5.
      RETURN
                                                                            BJU24060
                                                                            B.IU24070
С
С
      FREEING ATTORNEY (END OF TRIAL)
                                                                            BJU24080
C
                                                                            BJU24090
С
                                                                            BJU24100
С
      INJ STATUS HAS PREVIOUSLY BEEN TESTED
                                                                            BJU24110
С
                                                                            BJU24120
   LE IC=GATRB(2)
                                                                            BJU24130
      GO TO 631
                                                                            B. H124140
                                                                            BJU24150
C
      FREEING JUDGE (TRIAL EPISODE/OTHER COURTROOM/SPEEDY
                                                                            BJU24160
£
С
         TRIAL TIME LIMIT REACHED)
                                                                            BJU24170
С
                                                                            BJU24180
                                                                            BJU24190
С
      INJ STATUS HAS PREVIOUSLY BEEN TESTED
                                                                            BJU24200
С
                                                                            BJU24210
   66 TIS=GATRB(10)
      ICA=GATRB(2)
                                                                            BJU24220
                                                                            BJU24230
      ICJ=GATRB(3)
      IF(TIS.EQ.7.0.OR.TIS.EQ.6.7)60 TO 660
                                                                            BJU24240
                                                                            BJU24250
C
С
      FREEING JUDGE (OTHER COURTROOM/SPEEDY TRIAL TIME LIMIT)
                                                                            BJU24260
                                                                            BJU24270
                                                                            B.UZ4280
      IF(NOCSJ.EQ.1)GO TO 665
      IF(ICRT(ICJ).EQ.2.0R.ICRT(ICJ).EQ.3)G0 TO 666
                                                                            BJU24290
                                                                            BJU24300
  665 NQNC=123+ICJ
      NQC1=73+ICJ
                                                                            BJU24310
                                                                            BJU24320
      NQC2=190+ICJ
      IF(ICJ.EQ.6)NQC2=221
                                                                            BJU24330
      IF(BETAJ#XNINQ(NQC1)+BETAJ#XNINQ(NQC2).GE.XNINQ(NQNC))60 TO 666
                                                                            BJU24340
                                                                            BJU24350
C
                                                                            BJU24360
      SEND JUDGE TO NC
C
                                                                            BJU24370
С
                                                                            BJU24380
      UF=-1.0
                                                                            BJU24390
      GO TO 667
                          BJU24400
                                                C-136
      SEND JUDGE TO C
                                                                            BJU24410
C
                                                                            B.IU24420
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666 UF=1.0 BJU24430 С BJU24440 C CHECK IF THIS IS A PUBLIC CASE BJU24450 С BJU24460 667 IF(ICA.GT.2)UF=UF*3. BJU24470 RETURN BJU24480 C B.11124490 С FREEING JUDGE (TRIAL EPISODE) BJU24500 C BJU24510 C BJU24520 C TEST IF THIS IS A PRIVATE CASE BJU24530 C B.11124540 660 IF(ICA.LE.2)60 TO 664 BJU24550 IF(INJ(ICA).EQ.1)00 TO 661 BJU24560 С 8.024570 C TEST JUDGES'S C/NC QUEUE STATUS BJU24580 C BJU24590 664 NONC=123+1CJ BJU24600 NQC1=73+ICJ BJU24610 NGC2=190+ICJ BJU24620 IF(ICJ,EQ.6)NQC2=221 BJU24630 IF (BETAJ*XNING(NGC1)+BETAJ*XNING(NGC2),LT,XNING(NGNC))GO TO 661 BJU24640 C BJU24650 C TEST IF THIS IS A PRIVATE CASE BJU24660 С BJU24670 IF(ICA.LE.2) GO TO 663 BJU24680 C BJU24690 С TEST ATTORNEY'S C/NC QUEUE STATUS BJU24700 C B.1024710 NONC=123+ICA BJU24720 IF(ICA,EQ.19)NQNC=226 BJU24730 1QC1≈78+ICA BJU24740 IF(ICA.EQ.19)NQC1=224 BJU24750 IF(ICA.LE.(19-NACV)) GD TO 662 BJU24760 C BJU24770 С ATTORNEY (CIVIL) R.11124780 С BJU24790 IF (BETAV#XNING(NGC1), LT, XNING(NGNC)) GO TO 661 BJU24800 CU TO 663 BJU24810 Ć BJU24820 ATTORNEY (CRIMINAL) £ BJU24830 BJU24840 C 352 IF(BETAR#XNING(NRC1),LT,XNING(NONC))GO TO 661 BJU24850 С RJU24860 С SEND JUDGE TO C BJU24870 C BJU24820 663 UF#1.0 BJU24890 С BJU24900 CHECK IF THIS IS A PUBLIC CASE BJU24710 С С BJU24020 IF(ICA.GT.2)UF=UF#3.0 BJU24930 IF(ICA.GT,2)CSTAT(ICJ)=1.0 BJU24940 RETURN BJU24950 С BJU24960 SEND JUDGE TO NC C BJU24970 661 UF=-1.0 BJU24980 С BJU24990 C CHECK IF THIS IS A FUBLIC CASE BJU25000 C BJU25010 IF(ICA.GT.2)UF=UF*3.0 BJU25020 IF(ICA.GT.2)CSTAT(ICJ)=0.0 BJU25030 RETURN B.HI25040 C . . . . . . . مانا الموجة فالمراجع الالمراجع ----والأرامين يستحصين منصوران التواسي الراس - BUU25050 C FREEING ATTORNEY (TRIAL EPISODE/OTHER COURTROOM/SPEEDY BJU25060 С TRIAL TIME LIMIT REACHED) BJU25070 С BJU25080 С INJ STATUS HAS PREVIOUSLY BEEN TESTED BJU25090 С BJU25100 67 TIS=GATRB(10) BJU25110 IC=GATRB(2) BJU25120 ICJ=GATRB(3) BJ025130 IF(TIS.EQ,7.0.OR.TIS.EQ.6.7)GD TO 670 BJU25140 C BJU25150 С FREEING ATTORNEY (OTHER COURTROOM/SPEEDY TRIAL TIME LIMIT) BJU25160 С BJU25170 IF(IC.LE.(19-NACV))GD TO 672 BJU25180 BJU25190 C C ATTORNEY (CIVIL) BJU25200 С BJU25210 IF(NOCSV.EQ.1)G0 TO 631 BJU25220 BJU25230 GO TO 638 C-137

С BJU25240 C RJU25250 ATTORNEY (CRIMINAL) С BJU25260 672 IF(NOCSR.EQ.1)GO TO 631 8.1025270 GO TO 638 BJU25280 BJU25290 C С FREEING ATTORNEY (TRIAL EPISODE) 8JU25300 С BJU25310 670 IF(INJ(ICJ).EQ.1.OR.INJ(ICJ).EQ.2)GO TO 671 BJU25320 IF(CSTAT(ICJ).EQ.0.)GO TO 671 BJU25330 C B 1125340 С BJU25350 SEND ATTORNEY TO C Ċ BJU25360 UF=1.0 BJU25370 CSTAT(ICJ)=0.0 BJU25380 RETURN BJU25390 С BJU25400 B.11125410 C SEND ATTORNEY TO NC C BJU25420 BJU25430 671 UF=0.0 CSTAT(ICJ)=0.0 BJU25440 BJU25450 RETURN 97 ST(IC)=TNOW+UF BJU25460 98 ST(ICJ)=TNOW+UF BJU25470 R.IU25480 9 Q RETURN BJU25490 END BJU25500 SUBROUTINE UO COMMON /STRAC/ KTRAC, NFRNT3, NNFTS, KTRCE, KTRCS, NTBTR(50) BJU25510 COMMON /QVAR/ NDE, NFTBU(250), NREL(250), NRELF(250), NREL2(250), BJU25520 B.1125530 *NRUN, NRUNS, NTC(250), PARAM(100,4), TBEG, TNOW COMMON/CHNLP/NJ,NACR,NACV,BETAJ,BETAR,BETAV,WTMNJ,WTMXJ,WTMNR,WTMXBJU25540 1R,WTMNV,WTMXV,NOCSJ,NOCSR,NOCSV,NCSJ,NCSAR,NCSAV,STT,CDJ,CDA,DTJ,DBJU25550 21A, PC, PF, PD, PJD, PAD, PEDC, PEDF, PEDI, P1V, P1F, PID, PTV, PBTV, PTF, PBTF, PBJU25560 . ID, PETD, PPC, T(9), IQT(9), U(19), HOLD(4, 2), ST(19), CSTAT(6) R.III25570 COMMON AUSTAT/ UOBV(29,5),NUCOL,MUCOL,LLCOL(29,2),UTPV(25,6),NUTINBJU25580 1, MUTIM, LLTIM(25,2), INCEL(25), IJCEL(500), UHLOW(25), UHWID(25), LLHIS(BJU25590 BJU25600 225,2), NUHIS, MUHIS, UTCLR(25) BJU25610 Ĉ BJU25620 C UTILIZATION STATISTICS C BJU25630 BJU25640 DO 1 J=1,19 A = UTPV(J,1)+UTPV(J,6)*(TNOW-UTPV(J,3)) B.1025650 BJU25660 11 (A) 1,1,2 BJU25670  $U(J) \approx U(J) + (AZX)$ BJU25680 CONTINUE BJU25690 1 r BJU25700 BJU25710 С COMPLETION'S STATISTICS COLLECTION С, BJU25720 103 K = 70,73BJU25730 KK = K-69 8.11125740 HOLD(KK,1)=HOLO(KK,1)+FLOAT(NTC(K)) BJU25750 HOLD(KK,2)=HOLD(KK,2)+FLOAT(NTC(K))*FLOAT(NTC(K)) 8.1125760 BJU25770 3 CONTINUE BJU25780 C C PRINT OUT USER STATISTICS BJU25790 С BJU25800 8JU25810 CALL TIMP(0) RETURN 8.11125820 BJU25830 EMD BJU25840 SUBROUTINE FUS BJU25850 COMMON /QVAR/ NDE, NFTBU(250), NREL(250), NRELP(250), NREL2(250), *NRUN, NRUNS, NTC(250), PARAM(100,4), TBEG, TNOW BJU25860 COMMON /STAT/ JCELS(120,20), JSINK(120), NBRKB, NBRKS, NCLCT, NDT, BJU25870 BJU25880 *NDTL,NDTU,NHIST,NPD,NQL,NQU,NSINK(120),NSKS,NSKSR,NSKST,NSNR(120 *), SNODE(120), SUMA(120,7), WIDTH(120), XLOW(120), XSTUS(120) BJU25890 COMMON /QUE/ BLMAX(100),BSMAX(100),BSMIN(100),IMNQ(100),MAXQS, BJU25900 BJU25910 *MAXNS,MFAQ,MFAS,MFEQ(100),MLEQ(100),MFESQ(100),NABA(280), BJU25920 *NPO(100),NPTR(5250),NQAT(5250),NQN,NSAQ(200),NSERE,NSETS(200), *NSN,NSTUS(100),QMAX(100),QMIN(100),SBLK(100),SBUS(100),SQUE(100) R.III25930 *,TLCB(100),TLCQ(100),XBALK(100),NSAG2(100),LABLS(100,2) BJU25940 BJU25950 DIMENSION XABA(280) EQUIVALENCE (NABA(1), XABA(1)) BJU25960 COMMON/CMNLP/NJ,NACR,NACV,BETAJ,BETAR,BETAV,WTMNJ,WTMXJ,WTMNR,WTMXBJU25970 1R,WTMNV,WTMXV,NOCSJ,NOCSV,NOCSV,NCSJ,NCSAV,STT,CDJ,CDA,DIJ,DBJU25980 2IA,PC,PF,PD,PJD,PAD,PEDC,PEDF,PEDD,FIV,PIF,PID,PTV,PBTV,PTF,PBTF,PBJU25990 R.IU26000 3TD, PBTD, PPC, T(9), IQT(9), U(19), HOLD(4,2), ST(19), CSTAT(6) WRITE(6,500) BJU26010 500 FORMAT(1H1,20X,13HOUTPUT REPORT/20X,15(1H-)) BJU26020 WRITE(6,501) BJU26030 501 FORMAT(///4X,15HOUTPUT VARIABLE,8X,4HMEAN,5X,7HSTD DEV,3X, BJU26040 17HSTD ERR/1X,21(1H-),1X,3(2X,8(1H-))) BJU26050 WRITE(6,502) BJU26060 502 FORMAT(//1X,11HUTILIZATION) BJU26070 C-138

		B	JU26080	<b>.</b>
C	UTILIZATION STATISTICS	В	JU26090	
C			JU26100	
	XN=NRUN XSJ=0		JU26110 JU26120	
	XSSJ=0		JU26130	
	XSAR=0.		JU26140	
	XSSAR=0.		JU26150	
	XSAV=0, XSSAV=0,		JU26160	
			JU26170 JU26180	
	XNAR=NACR		JU26190	
	XNAV=NACV	B	JU26200	
	I10 401 J=1,19		JU26210	
	IF(J.LE.6)GO TO 402 IF(J.LE.(6+NACR)) GO TO 403		JU26220 JU26230	
	IF(J.LE.19)60 TO 404		JU26240	
C			JU26250	
D.	JUDGE UTILIZATION		JU26260	
) 	ИХ/{L}U+UZX=FSX		JU26270 JU26280	
402	(NX\(L))+(L22X=L22X)		JU26290	
	GO TO 401		JU26300	
51		-	JU26310	
2	ATTORNEY (CRIMINAL) UTILIZATION		JU26320	
2 407	XSAR=XSAR+U(J)/XN		JU26330 JU26340	
	XSSAR=XSSAR+(U(J)/XN)*(U(J)/XN)		1026350	
	GO TO 401		JU26360	
ξ	2. The second se Second second secon second second sec		JU26370	
	ATTORNEY (CIVIL) UTILIZATION		JU26380	
2000	XSAV=XSAV+U(J)/XN		JU26390 JU26400	
494	XSAV=X3HV+(U(J)/XN)*(U(J)/XN)		JU26410	
	CONTINUE,		JU26420	
) -			JU26430	
	AVEJ=XSJXNJ		JU26440	
	AVEAR#XSAR/XNAR AVEAV#XEAV/XNAV		JU26450 JU26460	
	1F(XNJ#X95J-X5J#X9J)405,405,406		JU26470	
	IF (XNAR*XSSAR-XSAR*XSAR)409,409,410	B	JU26480	
	IE(XNov*XSS6V-XS6V*XS6V)413,413,414		JU26490	
	JUDGE UTILIZATION		JU26500 JU26510	
-			JU26520	
~ 05	1F(XNJ.EQ.1.)60 TO 405	E.	JU24530	
	5.0**(((XNJ*X53J)-(XSJ*X5J))/(XNJ*(XNJ-1.)))**0.5		JU26540	
	GU TO 407 SIDJ=0.		JU26550 JU26560	
	SEJ=STDJ/SQRT(XNJ)		JU26570	
	WHITE(6,503)AVEJ,STDJ,SEJ		JU26580	
とつる	FURMAT(/3X,SHJUDGE,14X,3(2X,FB.2))		JU26590	
	GO TU 408		1026600	
	ATTORNEY (CRIMINAL) UTILIZATION		JU26610 JU26620	
5	NTTONIAL CONTINUES OF THE TON		1026630	
	IF (XNAR, EQ.1.)GO TO 409	E.	JU26640	
	S)DR=(((XNAR*XSSAR)-(XSAR*XSAR))/(XNAR*(XNAR-1.)))**0.5		JU26650	
1.X.M	GO 70 411		1026660	
	STDR=0. SER=STDR/SGRT(XNAR)		JU26670 JU26680	
	UPITE(A. SOA) AUFAR, STDR, SFR		1026690	
504	FORMAT(/3X,19HATTORNEY (CRIMINAL),3(2X,F8.2))	В	JU26700	
	GO TO 412		JU26710	
	ATTORNEY (CIVIL) UTILIZATION		JU26720 JU26730	
u n	ATTORNET (CIVIE) STILIZATION		JU26740	
- 414	IF(XNAV.EQ.1.)60 TO 413		JU26750	
	STDV=(((XNAV*XSSAV)-(XSAV*XSAV))/(XNAV*(XNAV-1.)))**0.5	B	JU26760	
	GO TO 415		JU26770	
	STDV=0.		JU26780 JU26790	
	SEV=STDV/SQRT(XNAV) WRTTE(A.505)AVEAV.STDV.SEV		JU26800	
505	WRITE(6,505)AVEAV,STDV,SEV FORMAT(/3X,16HATTORNEY (CIVIL),3X,3(2X,F8.2))		JU26810	
506	WRITE(6,507)		JU26820	
507	FORMAT(//1X,12HELAPSED TIME) .		JU26830	
	DO 201 I=1,NSKS IF(NSINK(I).EQ.70)GO TO 202		JU26840 JU26850	
	IF (NSINK(I).EQ.71)GD TO 202		JU26860	
	IF(NSINK(I),EQ.72)60 TO 202		JU26870	
	IF(NSINK(I).EQ.73)GD TO 202		JU26880	
	GO TO 201		JU26890	
		18-	JU26900	
C C	ELAPSED TIME STATISTICS C-139	Ð	JU23910	

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•	202	<pre>XS=SUMA(I,1) XN=SUMA(I,3) IF(XN.EQ.0.0) GD TD 609 AVG=XS/XN XSS=SUMA(I,2) IF(XN*XSS-XS*XS)204,204,203 IF(XN.EQ.1.)GD TD 204 STD=(((XN*XSS)-(XS*XS))/(XN*(XN-1.)))**0.5 GD TD 205 STD=0. SE=STD/SQRT(XN) JK = NSINK(I)-69 GD TD(206,207,208,209),JK WRITE(6,508)AVG,STD,SE FORMAT(/3X,10.4CIVIL/U.S., (X,3(2X,F8.2)) GD TD 201 WRITE(6,509)AVG,STD,SE FORMAT(/3X,8HCRIMINAL,11X,3(2X,F8.2)) GD TD 201 WRITE(6,510)AVG,STD,SE FORMAT(/3X,9HDIV. JUR.,10X,3(2X,F8.2)) GD TD 201 WRITE(6,511)AVG,STD,SE FORMAT(/3X,16HEEDEPAL DUESTION.7X,7(2X,F8.2))</pre>		8 11126930
				D 11/2/040
		IF(XN,EG,0.0) GD TD 609		B 1124950
		AVG=XS/XN		8 1194040
		XSS=SUMA(1,2)		B 1174970
		IF (XN*XSS-XS*XS)204,204,203		B 1174990
	203	IF(XN+EG+1+)G0 TO 204		B HI24090
		STD=(((XN*XSS)-(XS*XS))/(XN*(XN-1.)))**0.5		B.10220770
		GO TO 205		B.1127010
	204	STD=0.		E U127020
	205	SE=STD/SQRT(XN)		B.11/27030
		JK = NSINK(I) - 69		B 1122040
		G0 T0(206,207,208,209), JK		8 1122050
	205	WRITE(6,508)AVG,STD,SE		B U27030
	508	FORMAT(/3X,10HCIVIL/U.S., (X,3(2X,F8.2))		BUU27020
		GO TO 201		B.1127080
	207	WRITE(6,509)AVG,STD,SE		B.U27090
	509	FORMAT(/3X, BHCRIMINAL, 11X, 3(2X, F8, 2))		B 1127100
		GO TO 201		8.027110
	208	GU TU 201 WRITE(6,510)AVG,STD,SE FORMAT(/3X,9HDIV. JUR.,10X,3(2X,F8.2)) GD TU 201 WRITE(6,511)AVG,STD,SE	•	B.1027120
	510	FORMAT(/3X,9HDIV. JUR.,10X,3(2X,F8.2))		B.1127130
		GD TO 201		B.1127140
	209	WRITE(6,511)AVG,STD,SE		BJU27150
	511	FORMAT(/3X,16HFEDERAL QUESTION,3X,3(2X,F8,2))		BJU27160
		GO TO 201		BJU27170
	609	ЈК≔ИЅІИК(1)-69		BJU27180
		GO TO (601,603,605,607),JK .		BJU27190
	601	WRITE(6,602)		BJU27200
	602	FORMAT(/3X,10HCIVIL/U.S.,18X,18HND VALUES RECORDED)		BJU27210
		GO TO 201		BJU27220
		URITE(6,604) ·		BJU27230
	604	FORMAT(/3X,BHCRIMINAL,20X,18HNO VALUES RECORDED)		BJU27240
		GO TO 201		BJU27250
	305	WRITE(6,606)		BJU27260
	303	FORMAT(/3%,9HDIV, JUR.,19%,18HNO VALUES RECORDED)		BJU27270
		GO TO 201		BJU27280
		WRITE(6,608)		BJU27290
	513	FORMAT(/3X,16HFEDERAL QUESTION,12X,18HNO VALUES RECORDED)		BJU27300
		CONTINUE	••	BJU27310
	;			BJU27320
C		COMPLETIONS		BJU27330
C	;	,		BJU27340
		WR1TE(6,512)		BJU27350
	512	FORMAT(//1X,18HNO. OF COMPLETIONS)		BJU27360
		JK=1		BJU27370
	308	XS=HOLD(JK+1)		BJU27380
		COMPLETIONS WRITE(6,512) FORMAT(//1X,18HNO. OF COMPLETIONS) JK=1 XS=HOLD(JK,1) XN=NRUN AVG=XS/XN		BJU27390
		AV9=XS/XN		BJU27400
		X55=HULD(JK+2)		BJU27410
		IF(XN*XSS-XS*XS)302,302,301		BJU27420
	301	IF(XN,EQ.1.)GD TO 302		BJU27430
		STD=(((XN*XSS)-(XS*XS))/(XN*(XN-1.)))**0.5		BJU27440
		GO TO 307		BJU27450
		STD=0.		BJU27460
	303	SE=STD/SQRT(XN)		BJU27470
		GO TO (304,305,306,307),JK		BJU27480
	4 لات	WRITE(6,508)AVG,STD,SE		BJU27490
				BJU27500
	-	GO TO 308		BJU27510
	305	WRITE(6,509)AVG,STD,SE		BJU27520
				BJU27530
	761	GO TO 308		BJU27540
	370	WRITE(6,510)AVG,STD,SE		BJU27550
		JK≈4 G0 T0 308		BJU27560
			]	BJU27570
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	307	WRITE(6,511)AVG,STD,SE	BJU27580
		XSJ=0	BJU27590
		XSSJ=0	BJU27600
k d		XSK=0 XSSK=0	BJU27610 BJU27620
		XSS(=0	BJU27630
		XSSL=0	BJU27640
		XSM=0	BJU27650
		XSSM=0	BJU27660 BJU27670
		XSSN=0	BJU27680
		XS0=0	BJU27690
		XSSO=0 XSP=0	BJU27700 BJU27710
		XSSF=0	BJU27720
		NLB=NSKS+1	BJU27730
		LQL=NSKS+NQN DO 101 I=NLByLQL	BJU27740 BJU27750
		IF(NSINK(I),EQ.39)GO TO 136	BJU27760
		IF(NSINK(I).EQ.40)GO TO 137	BJU27770
		IF(NSINK(I).GE.74.AND.NSINK(I).LE.(73+NJ)) GO TO 102 IF(NSINK(I).GE.80.AND.NSINK(I).LE.(79+NACR)) GO TO 103	BJU27780 BJU27790
		IF(NSINK(I).GE.(93-NACV).AND.NSINK(I).LE.91) GO TO 104	BJU27800
		IF(NSINK(I).EQ.224) GO TO 104	BJU27810
•		IF(NSINK(I).GE.124.AND.NSINK(I).LE.(123+NJ)) GD TO 105 . IF(NSINK(I).GE.130.AND.NSINK(I).LE.(129+NACR)) GO TO 106	BJU27820 BJU27830
		IF(NS1NK(I).GE.(143-NACV).AND.NSINK(I).LE.141) GD TD 107	BJU27840
		IF(NSINK(I).EQ.226) GD TO 107 IF(NSINK(I).GE.191.AND.NSINK(I).LE.(190+NJ)) GO TO 108	BJU27850 BJU27860
		IF(NJ.EQ.6.4AND.NSINK(I).EQ.221) GO TO 108	BJU27870
		GO TO 101	BJU27880
Ċ			BJU27890
С С		COMPUTE Q-STATS FOR JDG-CT	BJU27900 BJU27910
	-	XSJ=XSJ+SUMA(I,1)/XN	BJU27920
		XE5J=X5SJ+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU27930
c		GC TC 101	BJU27940 BJU27950
Ċ		COMPUTE Q-STATS FOR ATT-CT (CRIMINAL)	BJU27960
	103	XSK=XSK+SUMA(I,1)/XN	BJU27970
		X55K=X55K+(SUNA(I,1)/XN)*(SUMA(I,1)/XN) G0 T0 101	BJU27980 BJU27990
i C	•		BJU28000
Ç		COMPUTE Q-STATS FOR ATT-CT (CIVIL)	BJU28010
C		XSL=XSL+SUMA(I,1)/XN	BJU28020 BJU28030
		XSSL=XSSL+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU28040
مر	· · · ·	GO TO 101	BJU28050 BJU28040
C C		COMPUTE Q-STATS FOR JDG-NC	BJU28080
Ē			BJU28080
	105	XSM=XSN+SUMA(I,1)/XN XSSM=XSSM+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU28090 BJU28100
		GO TO 101	BJU28110
C	<b>)</b>		BJU28120
C C		COMPUTE Q-STATS FOR ATT-NC (CRIMINAL)	BJU28130 BJU28140
L	-	XSN=XSN+SUMA(I,1)/XN	BJU28150
		XSSN=XSSN+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU28160
C		GO TO 101	BJU28170 BJU28180
C		COMPUTE Q-STATS FOR ATT-NC (CIVIL)	BJU28190
C	2		BJU28200
	107	XSO=XSO+SUMA(I,1)/XN XSSO=XSSO+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU28210 BJU28220
		GO TO 101	BJU28230
C			BJU28240 ·
C		COMPUTE Q-STATS FOR PRI-J	BJU28250 BJU28260
C		XSP=XSF+SUMA(I,1)/XN	BJU28270
		XSSP=XSSF+(SUMA(I,1)/XN)*(SUMA(I,1)/XN)	BJU28280
	•	GO TO 101	BJU28290 BJU28300
C	ng Shak	COMPUTE TIME Q-STATS FOR TOC-JDG	BJU28310
Ċ		and the second	BJU28320
	136	WXSJ=SUMA(I,6) WSSJ=SUMA(I,3)	BJU28330 BJU28340
		AWTJ=WXSJ/XN	BJU28350
· . ·	سنعما ور	IF(XN#WSSJ-WXSJ#WXSJ)139,139,138	BJU28360
	138	IF(XN.EQ.1.)GO TO 139 WTSDJ=(((XN%WSSJ)-(WXSJ%WXSJ))/(XN%(XN-1.)))**0.5	BJU28370 BJU28380
		WTSDJ=(((XN*WSSJ)-(WXSJ*WXSJ))/(XN*(XN-1.)))**0.5 GD TO 140 C-141	BJU28390
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	139	WTSDJ=0.	BJU28400
		WTSEJ=WTSDJ/SQRT(XN)	BJU28410
		WRITE(6,513)AWTJ,WTSDJ,WTSEJ	BJU28420
	513	FORMAT(//1X,20HAVERAGE WAITING TIME//3X,7HTOC-JDG,12X,3(2X,F8.2))	
	010	GO TO 101	BJU28440
C			BJU28450
č		COMFUTE TIME Q-STATS FOR TOC-ATT WXSA=SUMA(I,6) WSSA=SUMA(I,3) AWTA=WXSA/XN IF(XN*WSSA-WXSA*WXSA)142,142,141 IF(XN.EQ.1.)GO TO 142 WTSDA=(((XN*WSSA)-(WXSA*WXSA))/(XN*(XN-1.)))**0.5 GO TO 143 WTSDA=0	BJU28460
č		Combre The a-Stats For Toc-ATT	BJU28480
U.	177	WXSA=SUMA(1,6)	BJU28480
	101		
		WOOH-SUMH(1)3/	BJU28490 BJU28500
			BJU28510
	141	IF(XN.EQ.1.)GO TO 142	BJU28520
		W/SUA=(((XN*WSSA)-(WXSA*WXSA))/(XN*(XN-1.)))**0.5	BJU28530
	• • •		BJU28540
	7.41.22	MIDDH-V.	BJU28550
	143		BJU28560
		WRITE(6,514)AWTA,WTSDA,WTSEA	BJU28570
		FORMAT(/3X,7HTOC-ATT,12X,3(2X,F8.2))	BJU28580
	101	CONTINUE	BJU28590
		WRITE(6,515)	BJU28600
	515	FORMAT(//1X,20HAVERAGE QUEUE LENGTH)	BJU28610
		LOVA	BJU28620
		AVGK=XSK/XNAR	BJU28630
		AVGL=XSL/XNAV	BJU28640
		AVGM=XSM/XNJ	BJU28650
		AVGN=XSN/XNAR	BJU28660
		AVGO=XSO/XNAV	BJU28670
		AVGP=XSP/XNJ	BJU28680
		IF(XNJXXSSJ-XSJXXSJ)109,109,110	BJU28690
	124	IF(XNAR#XSSK-XSK#XSK)111,111,112	BJU28700
	126	IF(XNAV*XSSL-XSL*XSL)113,113,114	BJU28710
	129	IF(XNJ*X3SM-XSM*XSM)115,115,116	DJU28720
	130	IF (XNAR*XSSN-XSN*XSN)117,117,118	BJU28730
		1F(XNAV*X880-X80*X80)119,119,120	BJU28740
		IF(XNJ*XSSP-XSF*(SF)121,121,122	BJU28750
			BJU28760
		STRIATEG.I./SD/10/10/20/20/20/20/20/20/20/20/20/20/20/20/20	BJU28770
		GO TO 123	BJU28780
	209		BJU28790
		SEJ=ST0J/SORT(XNJ)	BJU28800
		WRITE(6,51%)AVGJ,STDJ,SEJ	BJU28810
	1.1A	FORMAT(/3x, 6HJDG-CT, 13x, 3(2x, F8, 2))	BJU28820
	ur ur	CO TO 124	BJU28830
	139	TF(XRAR.EQ.1.)GO TO 111	BJU28840
		STDK=(((XNAR*XSSK)-(XSK*XSK))/(XNAR*(XNAR-1.)))**0.5	BJU28850
		G0 T0 125	BJU28860
		S) DK=0.	BJU28870
		SEK=STDK/SQRT(XNAR)	BJU28890
	al an of	WRITE(6,517)AVGK+STDK+SEK	BJU28890
	12. 19 19	FORMAT(/3X,17HATT-CT (CRIMINAL),2X,3(2X,F8.2))	BJU28900
	017	GO TO 126	
	4 4 4		BJU28910
	111	IF(XNAV.EQ.1.)GO TO 113 STDL=(((XNAV*XSSL)-(XSL*XSL))/(XNAV*(XNAV-1.)))**0.5	BJU28920
			BJU28930 BJU28940
	1.4.52	GO TO 127	
		STDL=0.	BJU28950
		and the second se	BJU28960
		WRITE(6,518)AVGL,STDL,SEL FORMAT(/3X,14HATT-CT (CIVIL),5X,3(2X,F8.2))	BJU28970
	518		BJU28980
			BJU28990
	110	IF(XNJ.EQ.1.)GO TO 115 STDM=(((XNJ#XSSM)-(XSM#XSM))/(XNJ#(XNJ-1.)))##0.5	BJU29000
·			BJU29010
		GO TO 129	BJU29020
		STDM=0.	BJU29030
	129	SEM=STDM/SQRT(XNJ)	BJU29040
		WRITE(6,519)AVGM,STDM,SEM	BJU29050
	519		BJU29060
			BJU29070
	118	IF(XNAR.EQ.1.)GD TO 117	BJU29080
		STUN=(((XNAR*XSSN)-(XEN*XSN))/(XNAR*(XNAR-1.)))**0.5	BJU29090
			BJU29100
	117	STUN=0.	BJU29110
	131	SEN=STUN/SQRT(XNAR)	BJU29120
		USTIE(A.SOA)AUGN.SITH.SEN	BJU29130
	520	FORMAT(/3X,17HATT-NC (CRIMINAL),2X,3(2X,F8.2))	BJU29140
		GO TO 132	BJU29150
,	120	TE(XNAU.ER.1.)G0 TO 119	BJU29160
		STD0=((((XNAV#XSSO)-(XSO#XSO))/(XNAV#(XNAV-1.)))##0.5	BJU29170
	· .	GO TO 133	BJU29180

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119 STDD=0. BJU29190 133 SEC=STDO/SORT(XNAV) BJH29200 WRITE(6,521)AVG0,STD0,SE0 BJU29210 521 FORMAT(/3X,14HATT-NC (CIVIL),5X,3(2X,F8.2)) BJU29220 GO TO 134 BJU29230 122 IF(XNJ.EQ.1.)GO TO 121 BJU29240 STDP=(((XNJ*XSSP)-(XSP*XSP))/(XNJ*(XNJ-1.)))**0.5 BJU29250 GO TO 135 BJU29260 121 STDF=0. BJU29270 135 SEP=STDF/SQRT(XNJ) BJU29280 WRITE(6,522)AVGP,STDP,SEP BJU29290 522 FORMAT(/3X, 5HPRI-J, 14X, 3(2X, F8.2)) BJU29300 RETURN BJU29310 END BJU29320 FUNCTION NSTG(IX) 8.1029330 COMMON/CRMNL/NFOLW(15), UFA(15), IEPSD(15), IATTR(15), NBRNCH(25), 8 11/29/340 NEXTS(25,6), PNEXT(25,6), IDRTN(7), PCINJ(15), PCEXD(15), BJU29350 IACOL(15), ISCOL(15), SPEED(15), RLSE, BAIL, PMDTR(5) BJU29360 DIMENSION VAL(6), PROB(6) BJU29370 С BJU29380 C THIS FUNCTION SELECTS THE NEXT STAGE FOLLOWING DECISION FOINT IX BJU29390 C 8.11129400 NB=NBRNCH(IX) BJU29410 DO 25 I=1,NB 8.11129420 FROB(I)=PNEXT(IX,I) BJU29430 VAL(I)=NEXTS(IX,I) BJU29440 25 CONTINUE BJU29450 NSTG=DFROB(FROB,VAL,NBRNCH(IX),1) BJU29460 RETURN BJU29470 END BJU29480 SUBROUTINE DVRSN(LAST, NEXT) BJU29490 COMMON/CRMNL/NFOLW(15), UFA(15), IEPSD(15), IATTR(15), NBRNCH(25), BJU29500 Х: NEXTS(25,6), PNEXT(25,6), IDRTN(7), PCINJ(15), PCEXD(15), BJU29510 IACOL(15), ISCOL(15), SPEED(15), RLSE, BAIL, PMDTR(5) BJU29520 C BJU29530 С THIS ROUTINE DETERMINES THE OUTCOME OF A DIVERSION BJU29540 Ċ 8.11129550 C IF THE DIVERSION IS SUCCESSFUL BJU29560 NEXT = 209 OR 210 - WHICH INDICATE A SINK (CASE COMPLETION) C BJU29570 BJU29580 Û C IF THE DIVERSION IS UNSUCCESSFUL BJU29590 NEXI = IDRIN(LAST) WHICH RETURNS THE CASE TO THE NEXT C B.JU29600 STAGE IN THE CRIMMINAL CASE FLOW BJU29610 С BJU29620 Ċ LAST IS THE DECISION FOINT AT WHICH THE DIVERSION WAS INITIATED BJU29630 С С BJU29640 NEXT=NSTG(8) BJU29650 NEXT=NEXT*(-1) BJU29660 NEXT=NSIG(NEXT) BJU29670 BJU29680 IF(NEXT,EQ.100)NEXT=IDRTN(LAST) RETURN BJU29690 Ent BJU29700 FUNCTION NEXTA(IA) BJU29710 COMMON/URMNL/NFOLW(15), UFA(15), IEPSD(15), IATTR(15), NBRNCH(25), B.B129720 Ż WEXTS(25,6),PNEXT(25,6),IDRBN(7),FCINJ(15),FCEXD(15),BJU29730 ж IACOL(15), ISCOL(15), SPEED(15), RLSE, BAIL, PMDTR(5) BJU29740 С 3.4029750 THIS ROUTINE DETERMINES THE NEXT STAGE IN THE CRIMINAL BJU29760 C CASE STRUCTURE FOR THE CURRENT CASE BJU29770 C C BJU29780 DETERMINE IF THE CURRENT TRANSACTION IS JUST ENTERING THE SYSTEM BJU29790 C B.III29800 IF(IX.GT.0)G0 T0 25 BJU29810 NEXTA=1 BJU29820 B.JU29830 RETURN BJU29840 C C DETERMINE IF THE CURRENT TRANSACTION HAS JUST COMPLETED TRIAL B.1029850 BJU29860 £ BJU29870 25 CONTINUE IF(IX.GE.1000)G0 T0 500 BJU29880 BJU29890 CURRENT TRANSACTIONIS NOT COMPLETING TRIAL BJU29900 BJU29910 DETERMINE IF THE CURRENT TRANSACTION COULD HAVE MULTIPLE EPISODES BJU29920 BJU29930 BJU29940 IF(IEPSD(IX).LE.0)G0 T0 50 BJU29950 DETERMINE IF THE NUMBER OF EPISODES REMAINING IS > 0 BJU29960 BJU29970 BJU29980 J=IATTR(IX) BJU29990 K=GATRB(J) C-143 1F(K.LE.0)G0 T0 50 BJU30000

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	THE CURRENT TRANSACTION HAS EFISODES REMAINING	BJU30010 BJU30020
	NEXTA=IX Return	BJU30030 BJU30040 BJU30050
50	CONTINUE	BJU30060 BJU30070
in shi Shi	DETERMINE THE NEXT STAGE OF THE CURRENT TRANSACTION	BJU30080 BJU30080
75	NEXT=NFOLW(IX) Continue	BJU30100 BJU30110
-	IF(NEXT)300,200,100 CALL ERROR(550) CONTINUE	BJU30120 BJU30130 BJU30140
	CURRENT STAGE IS A DECISION POINT	BJU30150 BJU30160 BJU30170
	NEXT=NEXT*(-1) LAST=NEXT	BJU30180 BJU30190
	SELECT NEXT STAGE	BJU30200 BJU30210 BJU30220
250	NEXT=NSTG(NEXT) IF(NEXT)350,250,100 CALL ERROR(550) CONTINUE	BJU30230 BJU30240 BJU30250 BJU30260
	RESULT OF PATH SELECTION IS A DECISION POINT	BJU30270 BJU30280 BJU30290
	FIRST CHECK IF DP = 8 (THE DIVERSION DECISION POINT)	BJU30300
	NEXT=NEXT*(-1)	BJU30310 BJU30320
3-5	IF(NEXT.Ed.8)60 TO 375 LAST=NEXT GO TO 325 CUNTINUE	BJU30330 BJU30340 BJU30350 BJU30360
	A DIVERSION HAS BEEN ATTEMPTED	PJU30370 BJU30380 BJU30390
100	CALL DYRSN(LAST,NEXT) IF(NEXT,EQ.0)CALL ERROR(551) BC TO 75 CUNTINUE	BJU30400 BJU30410 BJU30420 BJU30430
	DETERMINE IF NEXT STAGE IS A SINK	BJU30440 BJU30450
	IF(NEXT.LT.200)GD TD 150 NEXTA=NEXT	BJU30460 BJU30470 BJU30490
	RETURN	BJU30490 BJU30500
	THE NEXT STAGE HAS BEEN DETERMINED	BJU30510 BJU30520
150	NEXTA=NEXT I=IEPSD(NEXT) J=IATTR(NEXT)	BJU30530 BJU30540 BJU30550
	NEPSD=0 IF(I.GT.O)NEPSD=TR(I) IF(I.GT.O)CALL PATRB(FLOAT(NEPSD),J) RETURN	BJU30560 BJU30570 BJU30580 BJU30590
	THE TRANSACTION HAS JUST COMPLETED TRIAL - SET NEXT STAGE	BJU30600 BJU30610 BJU30620
500	CONTINUE NEXTA=NSTG(18) Return	BJU30630 BJU30640 BJU30650
	END FUNCTION NACT(IX,TNOW) COMMON/CRMNL/NFOLW(15),UFA(15),IEFSD(15),IATTR(15),NBRNCH(25), K NEXTS(25,6),PNEXT(25,6),IDRTN(7),PCINJ(15),FCEXD(15) K IACOL(15),ISCOL(15);SFEED(15),RLSE,BAIL,PMDTR(5)	BJU30660 BJU30670 BJU30680 JBJU30690 BJU30700

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8,030710 C. THIS ROUTINE : B.HI30720 C BJU30730 1 - RETURNS THE APPROPRIATE USER FUNCTION C BJU30740 C VALUE TO INITIATE ACTIVITY IX BJU30750 Ĉ BJU30760 2 - SETS THE APPROPRIATE ATTRIBUTES C BJU30770 С BJU30780 С 3 - GENERATES THE OCCURENCE OF INJUNCTIONS BJU30790 C AND EXTERNAL DELAYS FOR CRIMINAL CASES BJU30800 C BJU30810 1F(IX.LT.5000)60 TO 100 BJU30820 IX=IX-5000 BJU30830 IF(IX,EQ,1000)IX=10 BJU30940 IF(IX,EQ,2000)IX=11 BJU30850 IXP=IX BJU30860 A6=IX B.11130870 CALL PATRB(A6,6) BJU30880 BJU30870 IS=GATRB(4) IF(IS.LT.0)CALL PATRB(SPEED(IX),10) BJU30900 NACT=UFA(IX) BJU30910 GO TO 1500 BJU30920 BJU30930 C Ĉ B.11130940 C PROCESS ALL CASES NOT RETURNING FROM AN EXTERNAL DELAY OR AN INJUNCTIOBJU30950 С BUU30960 100 IXP=GATRB(6) B.IU30970 IF(IX.GT.200)G0 T0 200 BJU30980 IF((IX.EQ.10).OR.(IX.EQ.11)) GO TO 300 BJU30990 IF(IX.EQ.6)G0 TO 400 IF(IX.EQ.7)G0 TO 500 BJU31000 BJU31010 IF(IEPSD(IX).GT.0)GD TO 600 BJU31020 BJU31030 C C NEXT STAGE REQUIRES NO SPECIAL PROCESSING BJU31040 - SET ATTRIBUTE & AND NEXTA APPROPRIATELY С BJU31050 BJU31060 C CALL PATRB(FLOAT(IX), 6) BJU31070 TIME=TNOW - IMARK(IX) BJU31080 CALL COL(TIME, IACOL(IX)) BJU31090 IF(GATRB(4).LT.0)CALL PATRB(SPEED(IX),10) BJU31100 NACT-UFA(1X) B.1031110 60 10 1500 B.III31120 C BJU31130 C NEXT STAGE IS A SINK (CASE COMPLETION) B.HI31140 BJU31150 100 CONTINUE BJU31160 TIME=TNOW-TMARK(IX) BJU31170 1=1X-205 BJU31180 CALL COL(TIME, ISCOL(I)) NACT=71 BJU31190 RETURN BJU31200 С BJU31210 С NEXT STAGE IN CASE FLOW IS A TRIAL BJU31220 BJU31230 C 300 CONTINUE BJU31240 TIME=TNOW-TMARK(IX) BJU31250 CALL COL(TIME, IACOL(IX)) BJU31260 IF(IX.EQ.10)CALL PATRB(1000.,6) BJU31270 IF((1X,EQ,10),AND,(GATRB(4),LT,0,))CALL PATRB(SPEED(IX),10) BJU31280 IF(IX.EQ.11)CALL PATRB(2000.,6) BJU31290 IF((IX.EQ.11).AND.(GATRB(4).LT.O.))CALL FATRB(SFEED(IX).10) BJU31300 NACT=UFA(IX) B.IJJ31310 GO TO 1500 R.III31320 С BJU31330 ACTIVITY A6 IS NEXT - DETERMINE IF SPEEDY TRIAL REQUIRED Ċ BJU31340 BJU31350 C BJU31360 400 CONTINUE BJU31370 TIME=TNOW-TMARK(IX) CALL COL(TIME, IACOL(IX)) BJU31380 IF(DRAND(7).LE.RLSE)GO TU 420 IF(DRAND(7).LE.BAIL)GO TO 420 BJU31390 BJU31400 BJU31410 C SPEEDY TRIAL MUST TAKE PLACE - BJU31420 C C BJU31430 CALL PATRB(-TNOW,4) BJU31440 CALL PATRB(SPEED(IX),10) BJU31450 BJU31460 420 CALL PATRB(FLOAT(IX),6) B.JU31470 NACT=UFA(IX) GO TO 1500 BJU31480

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С BJU31490 ACTIVITY A7 IS NEXT - SET SPEEDY TRIAL IF NECESSARY BJU31500 C - DECREMENT EPISODES BY 1 C B.1031510 С BJU31520 BJU31530 500 CONTINUE TIME=TNON-TMARK(IX) BJU31540 BJU31550 CALL COL(TIME, IACOL(IX)) IF((IXP.EQ.6).OR.(IXP.EQ.7))G0 TO 520 BJU31560 BJU31570 С С DETERMINE IF SPEEDY TRIAL REQUIRED BJU31580 С BJU31590 IF(DRAND(7).LE.RLSE)GO TO 520 BJU31600 BJU31610 IF(DRAND(7),LE,BATL)GO TO 520 BJU31620 C BJU31630 С SPEEDY TRIAL REQUIRED BJU31640 С BJU31650 CALL PATRB(-TNOW,4) CALL FATEB(SPEED(IX),10) BJU31660 BJU31670 С CONTINUE SETTING ATTRIBUTES FOR ACTIVITY A7 BJU31680 С С BJU31690 BJU31700 520 CALL PATRB(FLOAT(IX),6) BJU31710 EPR=GATRB(IATTR(IX))-1. CALL PATRB(EPR, IATTR(IX)) BJU31720 BJU31730 NACT=UFA(IX) BJU31740 GO TO 1500 BJU31750 C NEXT STAGE HAS EFISODES - DECREMENT THE APPROPRIATE ATTRIBUTE BJU31760 C С BJU31770 500 CONTINUE BJU31780 BJU31790 TIME=TNOW-TMARK(IX) CALL COL(TIME, TACOL(IX)) BJU31800 BJU31810 CALL PATRE(FLUAT(IX),6) BJU31820 EPR=GATRB(IATTR(IX))-1. BJU31830 CALL PATRB(EPR, IATTR(IX)) BJU31840 NACT=UFA(IX) BJU31850 C С DETERMINE IF AN INJUNCTION OR AN EXTERNAL DELAY TAKES PLACE B.IU31860 BJU31870 С \$3U31880 1500 CONTINUE BJU31890 1F.IXP.EQ.O)RETURN BJU31900 IHCATED(4) BJU31910 IF(DRAND(8).GT,PCINJ(IX))60 TO 1520 BJU31920 ũ DETERMINE IF AN INJUNCTION DCCURS BJU31930 C BJU31940 NACT=64 BJU31950 BJU31960 1: GATPB(6) BJU31970 I=145000 CALL FATEB(FLOAT(I),6) BJU31980 BJU31990 IF(I.LT.O)CALL PATRB(10.,10) BJU32000 RETURN 1520 CONTINUE 2JU32010 BJU32020 C C DETERMINE IF AN EXTERNAL DELAY DCCURS BJU32030 BJU32040 C FIRST DETERMINE IF THE CURRENT ACTIVITY IS A TRIAL BJU32050 Ľ BJU32060 С BJU32070 IF((IX,EQ.10).OR.(IX,EQ.11))GO TO 1530 BJU32080 IF(I.LT.O)RETURN BJU32090 C BJU32100 CURRENT TRAMSACTION - NON-TRIAL ACTIVITY С BJU32110 С IF(DRAND(8).GT.PCEXD(IX))P TURN BJU32120 BJU32130 С AN EXTERNAL DELAY OCCURS BJU32140 C BJU32150 С BJU32160 NACT=43 BJU32170 I=GATRB(6) BJU32180 I=I+5000 CALL FATRB(FLOAT(I),6) BJU32190 RETURN **BJU32200** BJU32210 C B.HJ32220 CURRENT TRANSACTION IS GOING TO TRIAL С BJU32230 С BJU32240 **1530 CONTINUE** BJU32250 IF(IX.EQ.IXF)G0 TO 1540 BJU32260 С CURRENT TRANSACTION HAS NOT BEEN DELAYED PRIOR TO START OF TRIAL С BJU32270 С

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BJU32280

	IF(DRAND(8),GT,PCEXD(IX))RETURN
	NACT=63
	I=GATRB(6)
	1=1+5000
	CALL FATRB(1.,5)
	CALL FAIRA(1,70)
	CALL PATRE(FLOAT(I),6)
	RETURN
0110	TRANSPORTED IN TRANSPORTED STATES OF A STATE OF TOTAL
GUN	RENT TRANSACTION WAS PREVIOUSLY DELAYED PRIOR TO START OF TRIAL
1540	CONTINUE
	KDLY=0
	NDLY=KDLY
	IF(KDLY.GE.5)NDLY=5
	IF (DRAND(B), GT. FMDTR(NDLY))RETURN
	NACT=63
	I=GATRB(6)
	1=1+5000
	DLY=KDLY+1
	CALL PATRB(DLY,5)
	CALL PATRB(FLOAT(I),6)
	RETURN
	END
	SUBROUTINE CHNG
	COMMON /QVAR/ NDE,NFTBU(250),NREL(250),NRELP(250),NREL2(250),
	*NRUN,NRUNS,NTC(250),FARAM(100,4),TBEG,TNOW
	DIMENSION ICON(4)
	INTEGER STAR
	DATA STAR/1H*/
	THIS ROUTINE READS AND CHANGES THE APPROPRIATE
	PARAMETERS ASSOCIATED WITH AN INTERCURRENT CHANGE
	A THE PRODUCTION WITH A THE COMPANY OF THE COMPANY
5	READ(5,2)(ICOH(I),I=1,4),NCHNG
2	
÷.	FORMAT(A1,3A3,15)
	IF(ICGR(1).EQ.STAR) GO TO 1
	IF(NCHNS.LT.0) CALL ERROR(630)
	READ NCHNG PARAMETER CHANGES
	EL 200 IF1,NCHNG
	READ(5,4)(ICOM(IA),IA=1,4),IFS
.4	FORMAT(A1/3A3,15)
	I; (ICOM(1),EQ.STAR) GO TO 3
	1+(1PS,LT,0) CALL ERROR (631)
÷	READ(5,6)(ICOM(IA),IA=1,4),(PARAM(IPS,JA),JA=1,4)
<b>5</b>	FORMAT (A1;3A3;4F5.2)
×	
ć	TRATONKATE, CO CTADE CO TO H
ć	IF(ICOM(1),EQ.STAR) GO TO 5
ć	IF(PARAM(1PS,1),LT,0,) CALL ERROR(432)
-	IF(PARAM(IPS,1),LT.0.) CALL ERROR(632) IF((IPS.GT.4),OR.(IPS.LT.70)) CALL CPTR(IPS)
د 200	IF(PARAM(1PS,1),LT.0.) CALL ERROR(632) IF((IPS.GT.4),OR.(IPS.LT.70)) CALL CPTR(IPS) CONTINUE
-	IF(PARAM(IPS,1),LT.0.) CALL ERROR(632) IF((IPS.GT.4),OR.(IPS.LT.70)) CALL CPTR(IPS)

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# APPENDIX D

# DATA SOURCES

There are a number of kinds and sources of data which should regularly be considered at the outset of a JRE study, when data sources must be matched up with data needs. We make one major distinction, between "objective" and "subjective" data. Briefly put, "subjective" data are data that must be extracted from peoples' minds for the purposes of a JRE; "objective" data means everything else -- i.e., data routinely recorded for purposes other than research, and data maintained for, or acquired in the course of, scientific research. The problems with objective data, as a type of JRE source, are access and the degree of similarity between the fact patterns from which they arose and the fact patterns to which the JRE relates. With subjective data, the main problems are developing methods of elicitation, and finding the most appropriate respondents.

# Data Sources -- Objective Data

Data for the execution of justice resource estimates are available from a number of sources and in a number of forms. Data and estimation methodology are intertwined; however, assuming network simulation is the prime technique for arriving at justice resource estimates, a number of general observations can be made on available data.

Various components of the federal justice system collect, process, and analyze data. In each case the reasons are different and at present there is no overarching rationale, nor system of coordination, to link the data-gathering efforts of the Department of Justice, the federal courts, and ancillary agencies. Collected data serve essentially managerial functions of public institutions and the oversight functions of Congress. Facilitating scholarly or applied research is not a prime objective of most data collection. Existing information can be, and is, most productively used in important studies that focus on "macro" or systemwide variables. However, most scholarship and applied management research concerned with more detailed "micro" level variables affecting the case processing system have involved considerable independent data collection efforts.

Since they represent two separate branches of the national government, the Department of Justice and the federal court system collect and report data reflecting different tasks. There is some overlap in these two bodies of information but each exhibits idiosyncrasies of method, categorization, and selection. The problems arising from distinctive

features of these data bases are numerous and too closely linked to specific subjects and operations to be discussed in detail here. But, they do raise serious questions about attempts to combine data from several sources in the execution of a single resource estimate.

With these preliminary points in mind, the following is a general overview of salient characteristics of data, including sources within the Judicial and Executive branches.

# Dockets

Each federal district court maintains an abbreviated history of each case that comes before it. For most districts, the information included in these capsule histories or dockets is a matter of local judicial policy administered by a clerk of the court. Dockets tell us when and how a case began, the judge who presided, record milestones in the case, motions by the parties, the eventual disposition and final award or sentence. For each recorded bit of data, a date is included so that in addition to charting the flow of a case from milestone to milestone, event to event the dockets can tell us the amount of calendar time elapsed between key decisional points. Obviously, dockets comprise an invaluable source of raw data for network simulation.

# Case Files

For every docket sheet there are often copious supplementary records maintained in the archives of individual courts. These provide elaboration on the brief docket entries and include support information bail, pleas, all defense, prosecution (plaintiff) motions, opinions of the bench, results of discovery, and contributions of expert witnesses. Like the dockets, this content of case files are governed by local courts. Compared to case dockets, these files probably contain little data of direct relevance for network simulation.

# The Administrative Office of United States Courts (A.O.)

The A.O. collects and processes some form of data from court dockets on every case that enters the federal court system. Using a series of reporting forms (JS1 through JS5) the Statistical Analysis and Reports Division receives regular breakdowns on criminal and civil cases, which are required either by the Judicial Conference or Congress. The A.O. is currently pilot testing the automation of dockets, which would ultimately link all 94 districts to Washington in an elaborate and uniform data collection network. As yet however, the preponderance of reporting is done by hand, by clerks from raw dockets.

This case reporting effort results in massive amounts of data, from which several important publications result:

• <u>Annual Report of the Director</u> - This provides an overview of the operations of the entire system. Reporting is by circuit and by district, cases are categorized by statute or offense and, where relevant, basis of federal jurisdiction. Usually one can determine on the basis of these large categories the number of a certain type of case (assuming it is one included in A.O.'s system of categories) in a given district and

nationally, method of disposition, outcome of disposition and, for criminal cases, some detailed information on "e status of defendants and convicted offenders.

• <u>Court Management Statistics</u> - This report, issued annually, provides an overall statistical profile of every federal court. It includes data on various types of actions per judgeships and courtwide median times from filing of a case to disposition.

• <u>Federal Offender/Sentences Imposed Reports</u> - Combined, these reports may be the most elaborately detailed of A.O. publications. They provide information on methods of cruminal disposition and type of sentence broken down by district and by very specific offense categories.

• <u>Reports on Implementation of the Speedy Trial Act</u> - The Speedy Trial Act imposed time limits on several stages of the federal criminal process. Congress requires regular reporting of the progress made by courts in meeting these deadlines. This is accomplished through reports which show both national and district statistics on time intervals from arrest to indictment, indictment to arraignment, arraignment to trial (appeal or dismissal), and trial to sentencing. These reports also include reasons for delay in meeting deadlines and statistics on the number of persons detained prior to trial. While not broken down by offenses, these data may allow the setting of ranges and probabilistic distributions for those processing arcs in network simulation that correspond to the stages affected by the Speedy Trial Act.

The A.O. does not report all the data it collects, nor does it combine these data in every permutation of currently reported categories. The Statistical Analysis and Reports Division can retrieve collected, but unreported, data through the use of special programs. When faced with the task of executing a justice resource estimate this Division should be formally notified of our exact data needs to determine if they can provide them from their files.

# COURTRAN I

This is the pilot project mentioned above. Currently operational in ten (10) districts, this software package introduces a discipline to the sequencing and scheme of docketing in the affected courts. It also enables a wide range of calculations from the resultant data. If adopted throughout the country it will homogenize a currently idiosyncratic and inconsistent process of data collection. Until then, the <u>COURTRAN</u> courts may be considered a possible sample from which some generalization might be possible. In the discussion of the specific data requirements of network simulation the points at which <u>COURTRAN</u> might be particularly useful will be included.

# The Department of Justice

The Department of Justice is a potentially rich source of data. Like the federal court system, DOJ collects, processes and analyzes large amounts of data from managerial and Congressional reporting services. Profiles of the activities of the Department can be found in the <u>Annual Report of the Attorney General</u> and more detailed information on criminal and civil cases can be found in the annual <u>United States Attorneys'</u> <u>Offices Statistical Report</u>. As with comparable publications of the Court System, some data can be drawn from these essential documents. Data which are collected but unpublished are available through the <u>Legal</u> <u>Information Systems Service</u> and all available data files are listed in the <u>Information Systems of the Office of Management and Finance</u>. As will be noted below, data from these sources should be used in conjunction with that collected by the courts, but there are also mechanisms which allow for rapid retrieval in certain areas.

# Published Judicial Opinions

Published judicial opinions are coded by the West Publishing Company according to a highly detailed dictionary of key words, and in systems such as JURIS and LEXIS, are entered full-text into computer files. Whether by manual search in West publications (by key words), or by word or phrase-based retrieval in the computerized systems, one can readily get a list of cases that pertain to the subject one intends to research. The published record of factual findings and legal rulings that can be accessed from that list supply data or an aggregation of cases, all on the same specified topic. The kinds of information that one might expect to find in these records, and limitations on their research utility, include the following:

• Outcomes - numbers of dismissals, withdrawals, settlements, judgments, bench or jury trials, etc. This sort of information could be useful in validating network simulation, although only with careful expert-opinion interpretation. Not all published opinions deal with case dispositions, but may instead contain rulings on motions or other matters short of final outcome. That is, some intermediate decision point may be reported. The object may, however, be to retrieve cases in which an intermediate matter, such as a type of motion corresponding to some internal part of a network diagram, without particular concern for what the verdict or judgment later proved to be. Published opinions at the appellate level give counts of cases, by specified type which extend to post-trial adjudications.

• <u>Types of parties</u> - whether plaintiff or defendant is a private individual, a small business, a corporation, a State, "the United States, etc. Some information about the kinds of parties in cases on a given subject can be expected to be found in published opinions. This may be needed as part of the modeling of inputs to a case processing system. Knowing what type of party was involved can lead to a decision as to whether subsequent experiences in the case processing system vary according to type of litigant. This may then, influence system modeling.

• <u>Factual background</u> - what conditions are evident that might explain why the case arose. This could be important in estimating feedback relationships between external factors and the case processing system.

• <u>Elapsed time</u> - total time from case filing to date of opinion. To the extent the opinion explains what transpired, it will show not only what path the case followed through the system, but what amount of time was involved, as well.

These few observations above indicate that published opinions, because of their retrievability and content, have some research potential. The actual extent of research utility has not to our knowledge been established, though we may be able to make some contribution in that area in the justice resource project. Some shortcomings of published opinions as research data should be noted:

• <u>Deciding to publish</u> - whether a judge or judicial panel will decide to publish their findings or rulings. We know of no requirement on a judge to write; a ruling may be made in open court and not reduced to writing, or written and circulated only to the parties, or written and not circulated beyond the case file. Judges are not subject to a "publish-or-perish" rule, and the decision is mainly individualistic.

• <u>Coverage</u> - what aspects of a case are written about in the opinion. This depends on what the judge feels is necessary to explain the ruling, and is highly individualistic, tied to both the particular judge and the particular case. Apart from a statement of outcome, some description of the parties, some background on how the issue arose, and time from filing to opinion, there may be nothing that one could expect to find consistently covered.

• <u>Sampling bias</u> - relating to what subset of cases on a given subject enter into the published opinions. It is likely that the cases on a given factual subject that result in published opinions will mainly be those where some novel legal question has to be answered. These cases cannot be expected to be typical of all such fact questions. The nature and extent of bias in reporting could be explored by comparing the data from a sample of published opinions with the same sort of data in a sample of case files drawn from the same jurisdiction and time period.

It is also somewhat of a shortcoming that extracting such data requires that the data gatherer possess some degree of legal training, since judicial opinions are written for a legally-trained leadership, and a point one wishes to research may be found in the midst of a discussion of some intricate legal matter. This problem may be more than offset, however, by the fact that published judicial opinions are in a completely <u>centralized</u> data source, requiring no field expeditions, authorizations, and cooperation on the part of study respondents.

# Automated Data Processing Case Retrieval Systems

One means for expediting JRE research on case-processing systems is the utilization of automated data processing (ADP) case retrieval systems. ADP systems encompass a broad range of information on such subjects as arrests, crime trend analysis, court calendaring, docketing, jury management, and workload analysis.  $\frac{1}{}$  Some of the ADP systems which would seem most pertinent to the Justice Resource Estimation project might be the court caseload management and reporting systems, case disposition records, juvenile data systems, courtroom event systems, courts workload analysis, and case statistics systems. Many of these data systems contain information relating to the specifics of the court actions for each case passing through the justice system. Certain problems associated with their use are accessibility and scarcity of automated systems with federal level data. Information from State and local jurisdictions are considerably more numerous and contain a great deal of detailed information. Data for the federal court system are less often available and frequently lack the desired level of detail.

Some of the exemplary ADP systems utilized at the local level are being expanded to include federal cases. For example, the

1/ For a more complete listing, see the Directory of Automated Criminal Justice Information Systems, U.S. Department of Justice, Law Enforcement Assistance Administration.

Prosecutor's Management Information System (PROMIS) of the District of Columbia was first transferred for use in twenty-two other jurisdictions and is now planned for implementation in the D.C. District Court.

Other ADP systems that provide useful information for the JRE project are the Federal Legal Information Through Electronics (FLITE) and the Department of Justice's own Justice Retrieval and Inquiry System (JURIS). FLITE is basically a military justice data system. The full text of the U.S. Code is in the system, as well as opinions of the U.S. Court of Military Appeals, and published and unpublished decisions of the Comptroller General. Use of FLITE would be most helpful in researching cases and decisions pertaining to military law.

JURIS is a legal information retrieval system operated by the U.S. Department of Justice (DOJ) primarily for the use of DOJ attorneys in pursuing legal research. JURIS provides an interactive capability via terminal (leased line or dial up).

See the "Overview of PROMIS," page D-18.

*See the "Overview of FLITE," page D-20.

JURIS is ideal for arranging information pertaining to caselaw, statutes, or published digest materials. JURIS can facilitate and speed up the process of locating published opinions on federal cases of a certain type. One can be relatively certain that a search on the JURIS system will elicit the case type or will cite the cases which are of interest. This saving of time and effort may permit the legal researcher to devote more time to reviewing relevant opinions and cases rather than to searching for these materials.

One other case retrieval system should be mentioned, which is LEXIS. It is similar to JURIS in being a full-text, key word in context system, accessible through remote terminals, and may without a great deal of distortion of reality be thought of as the private-sector version of JURIS. It is strictly proprietary. Its coverage of federal judicial opinions appears to be more extensive than JURIS, with respect to how far it extends into the past. Perhaps the major difference between JURIS and LEXIS from our point of view is that LEXIS includes opinions from the reporters for a number of States.

# OVERVIEW OF PROMIS (1976)

NAME OF SYSTEM-------PROSECUTOR'S MANAGEMENT INFORMATION SYSTEM CODE_NAME------PROMIS

POPULATION AREA SERVEC----700,000 PRESENT STATUS------CPERATIONAL OPE •\TIONAL DATE-----01/01/71 CCATRACTCR(S) INSLAW (ACTIVE)

CCST CF SYSTEM

TOTAL DEVELCPMENT COSTS---NCT REPORTED Total Annual Costs-----57,000 Total Leas Funcs Used----NCT Reported

TRANSFERREC SYSTEM-----NO TELECOPIER----NONE

PLANNED ADDITIONS---IPPLEMENTATION FOR FEDERAL CASES IN DISTRICT OF COLUMBIA. ADAPTATION To include consumer complaints.

SOFTWAREOS/VS;FASTER
HARDWAREIBM 370/150
3330 CISKS, 3275/3277 CRT'S
CPU-LEASEC, PERIPHERALLEASED
ENVIRONMENTSHARED ONLY WITH OTHER CRIPINAL JUSTICE SYSTEPS
INTERFACETERMINAL WITH WALES
TERPINAL WITH NOIC
DOCUMENTATIONCCMPLETE

PROMIS IS AN ALTOMATED INFORMATION SYSTEM LESIGNED TO ASSIST THE PROSECUTOR IN THE PLAN-NING, CONTROL AND RESEARCH OF A LARGE VOLUME CHIMINAL CASE SYSTEM. PROMIS RANKS PENDING CASES ACCORDING TO THEIR RELATIVE UPGENCY FOR FROSECUTION SO THAT THE MANAGEMENT OF THE PROSECUTORS OFFICE CAN INTELLIGENTLY ALLOCATE SCARCE MANPOWER FOR PREPARATION AND TRIAL OF C.SES. IT AUTOMATICALLY PRODUCES WITNESS SUBPCENAS AND SCHEDULING REPORTS. PROMIS ALSO TRACKS ALL CASES IN THE COURT SYSTEM THROUGH FINAL DISPOSITION, AND CAPTURES FOR RESEARCH PURPOSES ALL PARTICULARS ABOUT EVERY COURT ACTION IN A CASE. PROMIS HAS BEEN DESIGNATED AN EXEMPLARY PROJECT BY LEAA AND IS CURRENTLY BEING TRANSFERRED TU TWENTY-TWO OTHER JURIS-DICTIONS.

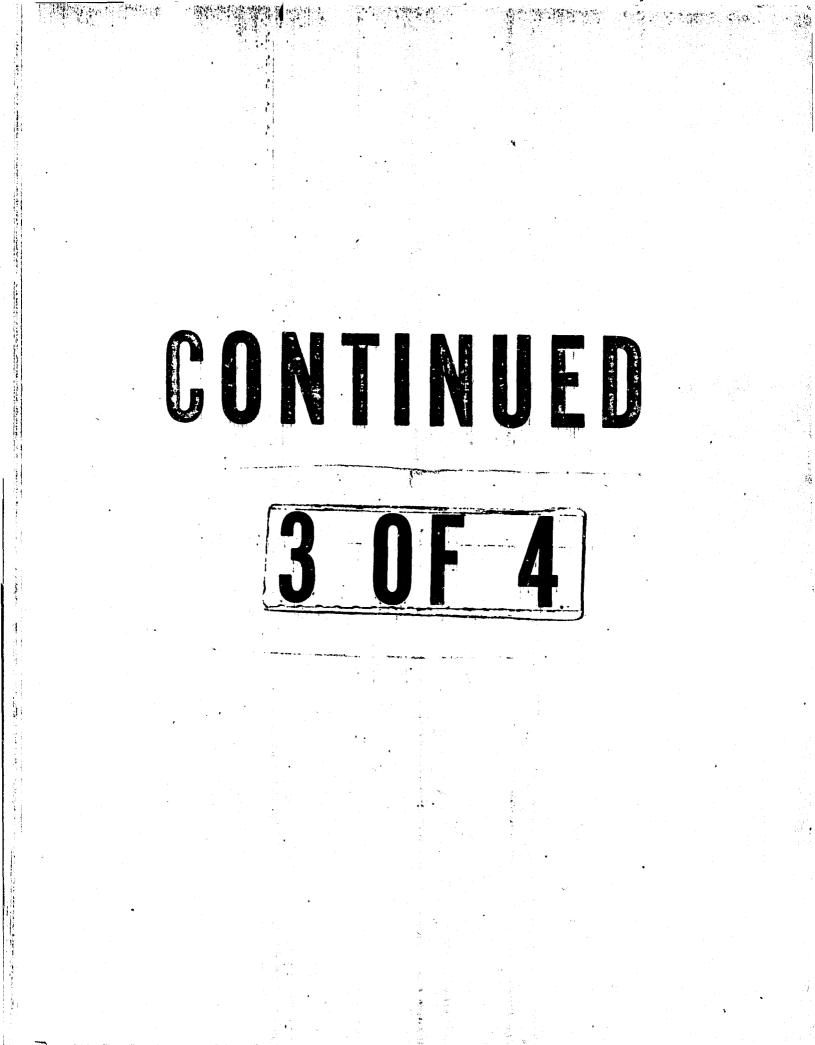
RESPONSIBLE AGENCY CONTACT DEAN C. MERRILL VICE PRESIDENT, INSLAM 1125 FIFTEENTH ST. N.N., 4625 WASHINGTCN.C. 20005 202 872-9380

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### DATA PROCESSING CONTACT SAME

**** SYSTEP FUNCTIONS 50**

FUNCTION	LANGUAGE	DOCUMENTATION	MCDE	STATUS
ARRESTS	COBCL	CCMPLETE	MIXED	CPERATICNE
CALENCARING/SCHECULING	CCBCL	COMPLETE	MIXED	CPERATICAL
CASE CONTROL	COBOL	CCHFLETE	BATCH	CPERATICN
CASE DISPOSITION REPORTS	CCBCL	CCMFLETE	BATCH	CPERATICAL
CCMM-ON-LINE INQUIRY	FASTER	COMPLETE	<b>CN-LINE</b>	GPERATICM.
CRIPE TREND ANALYSIS	CCBCL	COMPLETE	BATCH	CPERATICS.



**** SYSTEF FUNCTIONS CONT. >***						
FUNCTION	LANGLAGE	DOCUMENTATION	MODE	STATUS		
DEFENDANT CONTROL	COBOL	COMFLETE	BATCH	OPERATIONAL		
GEOPROCESSING (GEOCCDING)	CBOL	COMPLETE	BATCH	CPERATIONAL		
OFFENDER BASED TRANSACTION STATISTICS	CCBCL	COMPLETE	BATCH	CPERATIONAL		
PROSECUTION MANAGEMENT	CCBOL	COMPLETE	MIXED	OPERATIONAL		
RESEARCH/STATISTICS	C0801	COMPLETE	BATCH	OPERATIONAL		
RESOURCE ALLOCATION	COBOL	COMPLETE	BATCH	OPERATIONAL		
SUCJECTS-IN-PROCESS	COBCI	COMPLETE	MIXED	CPERATIONAL		
SUMMENS CONTREL	COBCL	CONPLETE	BATCH	<b>CPERATIONAL</b>		
WITNESS CONTROL	COBOL	COMPLETE	MIXED	OPERATIONAL		
WORK LOAD ANALYSIS	CCBOL	COMPLETE	MIXED	CPERATIONAL		

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# OVERVIEW OF FLITE (1976)

### STATE(S)-----FECERAL JUPISDICTION(S)----FEC GOVT

FEDERAL REGION(S)------OO SYSTEM CATEGORY-----COURTS,CTHER AGENCY(S)-----JUCGE ADVCCATE GEN, LSAF

CONTRACTOR(S) NONE REPORTED

CEST CF SYSTEM

TOTAL DEVELCEMENT COSTS---0,000,000 Tetal Annual Costs----500,000 Tetal leaa funds used----nc leaa funcs received

المتسمعهم لاحتاج الجرارا الالتعام

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TRANSFERRED SYSTEM-----NC TELECCPIER----NCNE

PLANNED ADDITIONS---DEVELCEMENT OF CATA BANK OF FEDERAL STATUTORY, REGULATORY, AND DECISIONAL LAW

SCFTWARE-----CS/MVT ASP: HARCWARE------IBM 360/65 3330 DISK, 1403 PNTP, 2540 CRCP, TI 924-6 TAPE STATICNS CPU--LEASEC, PERIPHERAL--LEASED ENVIRCNMENT-----SHAPEC HITH OTHER GCVERNMENTAL SYSTEM INTERFACE------NC INTERFACE SYSTEMS COCUMENTATICN-----PARTIAL

FLITE (FECERAL LEGAL INFORMATION THROUGH ELECTRONICS) IS A SYSTEM WHICH USES COMPUTER TECHNOLOGY TO STORE, SEARCH AND RETRIEVE LEGAL INFORMATION. IT IS A DEPARTMENT OF DEFENSE ACTIVITY, MANAGED AND OPERATED BY THE U.S. AIF FORCE AS EXECUTIVE AGENT. THE FLITE SEARCH SERVICE IS AVAILABLE TO ALL DOD ACTIVITIES, WITHOUT CHAPGE, AND TO ALL FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES ON A COST PEIMELFSEMENT BASIS. THE CATA WANK INCLUDES THE FULL TEXT OF THE UNITED STATES CODE; COMPTROLLEE GENERAL DECISIONS (PUBLISHED AND UNPUBLISHED); COURTS-MARITAL REPORTS; MANUAL FOR COURTS MARTIAL (1965 REV.); BOARD OF CONTRACT APPEALS DECISIONS; ARMED SERVICES FROCUREMENT REGULATIONS; INTERNATIONAL LAW AGREEMENTS; COURT OF RIES.

RESPENSIBLE AGENCY CONTACT	CATA PROCESSING CONTACT
A. L. BERTHELSON, CHIEF	CHARLES P. HOWERTON. CHIEF
ATTORNEY SECTION. FLITE	ECP SECTION. FLITE
HO USAF/JAESL	FO USAF/JAESL
DENVER, COLCRADO 80279	CENVER, COLCRACO 80279
303 825-1161	303 825-1161

**** SYSTEP FUNCTIONS ****					
	FUNCTION	LANGLAGE	DECUMENTATION	MCDE	STATUS
LEGAL INFO	RETRIEVAL	COBCL	PARTIAL	BATCH	CPERATIONAL

# OVERVIEW OF JURIS (1976)

STATE(S)----FEDERAL JUR ISDICTION(S)----FED GOVT

POPULATION AREA SEPVED----NCT REPORTEC PRESENT STATUS-----CPERATIONAL OPERATIONAL DATE-----07/01/74

CENTRACTER(S) NCNE REPORTED

CATA PROCESSING CONTACT

SAME

-

CCST OF SYSTEM

•

TCTAL DEVELCPMENT CCSTS---3CO,COO TCTAL ANNUAL CCSTS------600,COO TCTAL LEAA FUNCS USED----NO LEAA FUNCS RECEIVED

TRANSFERRED SYSTEM-----NASA #RECCN . TELECCPIER-----NONE

PLANNED ADDITIONS---ENHANCEMENT OF USER INTERFACE STRUCTURE

SOFTWARE------CS/MVT REL 21.7;CICS V2.3 HAPCWARE------IBM 370/155 2M 3330 DISK, B-R 2000 CRT, CFCR, PMTR, TAPE CPU-LEASEC, PERIPHERAL-LEASED ENVIRONMENT-----SHARFC WITH CTHER GOVERNMENTAL SYSTEM INTEPFACE-----NC INTERFACE SYSTEMS PERIPHERAL--LEASED DECUMENTATION-----PARTIAL

THE JURIS SYSTEM PROVICES AN INTERACTIVE CAPABILITY VIA TERMINAL (LEASED LINE OR CIAL-UP) FOR DEPARTMENT OF JUSTICE ATTORNEYS TO PURSUE LEGAL RESEARCH. THE FULL TEXT AND/OR INDEX TERMS OF LEGAL COCUMENTS; E.G., COURT CECISIONS, ARE STORED IN THE COMPUTER AND ARE RE-TRIEVED BY SPECIFYING TO THE COMPUTER WHICH WORDS ARE DESIRED. THE SYSTEM IS USED TO SUP-PCRT GENERAL LEGAL RESEAPCH, AS WELL AS INCIVIDUAL LITIGATION EFFORTS.

RESPONSIBLE AGENCY CONTACT 8. W. BASHEER, CHIEF LEGAL INFERMATION SYSTEMS CR. DEPARTMENT OF JUSTICE WASHINGTON, D.C. 20530 202 376-7123

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**** SYSTER FUNCTIONS ****

FUNCTION	LANGLAGE	DCCUMENTATION	MCDE	STATUS
LEGAL INFO RETRIEVAL	ASSEPELY	PARTIAL	MIXED	CPERATIONAL

14.90

# FIVE FILE GROUPS OF THE JURIS DATABASE (Revised January 1979)

# CASELAW:

U.S. Supreme Court Federal Reporter, 2nd Series Federal Supplement Court of Claims Federal Rules Decisions Court of Military Review, Vols. 1-50 Military Justice Reporter

## DIGEST:

Modern Federal Practice Digest Supreme Court Reporter Federal Reporter, 2nd Series Federal Supplement Federal Rules Decisions

Federal Digest Regional Reporters (State cases)

# STATUTORY LAW:

United States Code Public Laws Executive Orders Code of Federal Regulations, Titles 10, 18, 28, 37, and selected portions of 7, 24, 36, and 40

# ADMINISTRATIVE LAW:

Comptroller General Decisions, Vols. 1-54 July 1921 - June 1975 Nuclear Regulatory Commission Decis 3 March 1972 - April 1978

# DISTRICT OF COLUMBIA LAW:

February 1971 - May 1975 D.C. Court of Appeals (criminal decisions only) June 1976 - November 1977 Atlantic Reporter, 2nd Series (DCCA only) U.S. Attorneys Office briefs filed in the January 1974 - May 1975 U.S. Court of Appeals, D.C. Circuit Selected D.C. Superior Court decisions January 1966 - November 1974 (criminal only) October 1969 - April 1976 Washington Law Reporter

1900 - advance sheets June 1962 - slip opinions (West proofs) January 1970 - slip opinions (Westproofs) February 1956 - June 1975 March 1975 - advance sheets 1951 - 1975 1975 - to date

1960 - advance sheets 1960 - advance sheets 1960 - advance sheets 1960 - advance sheets

1967 - advance sheets

1970 ed. through Supp. II 93rd Congress - 95th Congress July 1973 - April 1975 1974 ed.

# Special Studies

Once the data requirements have been established, the research analysts then have the rather large task of ferreting out applicable research reports. There are various means by which this might be accomplished. One avenue might be to inquire of experts in the field of interest as to possible studies that might have generated the kind of data currently being sought. Possible constraints on this approach include the time available for locating and requesting assistance from experts, as well as their willingness to cooperate and their knowledgeability about the subject matter. It may or may not be readily apparent who the "experts in the field" actually are. The "justice system" consists of lawyers representing a very broad array of interests, judges, court clerks, court administrators, and many other less permanent actors such as clients, defendants, witnesses, etc. Any of these types of actors may have had occasion to know about research pertaining to the justice system. In addition, there are numerous scholars of the legal system who would, presumably, be familiar with pertinent studies. Research personnel at the Federal Judicial Center are an excellent source of scholars who are familiar with studies relevant to legislative and other impacts on the federal justice system. In many, if not all, cases, guidance of the intended JRE user will be helpful, both in locating studies, and in locating the appropriate experts.

Libraries, particularly institutions which specialize in specific subject areas, often will have reference personnel who have a great deal of expertise in recalling and locating research materials. These may also provide a rich source for familiarizing a project team with applicable studies as well as realizing the "state-of-the-art" in the field. The use of libraries should include a routine search of available empirical studies using <u>Readers' Guide to Current Periodical Literature</u>, <u>Public</u> <u>Affairs Information Service</u>, and <u>Index to Legal Periodicals</u>. The <u>SCORPIO</u> system for scanning the book and periodical holdings of the Library of Congress will greatly aid in this effort.

The time and effort expended in locating and examining relevant studies will sometimes be better spent than the time, money, and work hours needed to develop a research study. The construction and preliminary testing of data gathering instruments is usually a rather expensive and timeconsuming process. The data collection and preparation for data analysis stages may likewise require a great deal of time and effort on the part of many employees. The analyses of the data and writing of results, etc., are also crucial points in the research that are dependent on highly skilled and knowledgeable individuals. In those instances in which time, finances, and highly skilled personnel are at a premium, a secondary analysis of a relevant body of data will provide a considerable economy of scarce resources.

Secondary analysis basically entails the testing of hypotheses "on data that were originally collected and analyzed by others for some other purpose."

Gerald S. Ferman and Jack Levin, Social Science Research. (New York: John Wiley and Sons, 1975), pp.58-59.

Freed from the collection and processing of data, the researcher may devote his major efforts to the development and analysis of the problem.

The primary problem associated with conducting a secondary analysis is the location of data that provide a good "fit" with the hypotheses of interest. Because the data collection instruments were not specifically designed to provide data for the questions posed by the JRE researcher, there may not be enough information or detail in the responses to completely satisfy the needs of the current study. The main job, therefore, is to select very carefully the data set that comes closest to matching the information requirements with the data. If the data are too far from addressing the principal issues, a secondary analysis would be useless. The section of this report that deals with subjective data raises the point, however, that the proper sort of opinion or expert judgment may be able to transform, through analogy, data generated in one setting into data suitable in another setting.

Our experience in the justice resource project in tracking down data in the areas of juvenile justice and class action reform are illustrative of the above steps. Experts were contacted and special library resources were tapped and scrutinized in order to arrive at candidate studies for secondary analyses.

The class action portion of the project may be used as an example of the investigative process that took place in obtaining sources of secondary data. Numerous experts were consulted, including two who had worked directly in the area of class action research/litigation. Several Federal

Circuit Executives, from various parts of the country were contacted for advice in locating federal level research. Two researchers contacted were employed in the Research Division of the Federal Judicial Center.

- The archival resources utilized were primarily the Library of Congress, including the American Law Section, several local law libraries, the Federal Judicial Center Library, and LEAA's library, the National Criminal Justice Reference Service.

The next major steps involved the obtaining and examination of documents procured through the search process. Research reports were read and authors were contacted for more detailed information or clarification. Further contacts were initiated to seek out sources for raw data when the studies were thought to be pertinent. At this latter point, a Class Action Data Catalog was established in order to organize the procurement process. The data catalog consisted of a matrix with the data sources referenced down the rows and specifications of the data contents across the columns. The data specifications noted were:

- 1) the authorship, date, and location of the publication;
- the current physical location and proprietorship of the raw data files;
- 3) data availability: machine readability and costs;
- 4) case selection factors: sampling techniques, period of data collection, substantive area of the law, and geographic spread;
- 5) number of cases; and,
- 6) research documentation.

The data catalog also included a column for comments which were maintained on an ongoing basis to enable the research team to monitor the progress of obtaining data files from the various sources.

Once the data files were received they were examined to determine the "fit" of the available data to the research problems. This involved finding time distributions for the activities that occur in class action cases, probabilities for activity occurrences, and time distributions for system actors performing the activities.

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# Case-Weighting Study

The Federal Justice Research Program of the Office for Improvements in the Administration of Justice and the Executive Office for U.S. Attorneys funded a project to develop a case-weighting system for U.S. Attorneys' Offices. The purpose behind the study was to improve the ability of the various offices to estimate the number of assistant U.S. attorney positions needed for incorporation in the budget.

The case weights estimated the workload associated with particular types of cases. The service times associated with the particular events and activities occurring in the lives of cases were also tabulated.

This level of detail is what the simulation model requires in order to accurately assign the amount of time to the various activities which modeled attorneys perform. The same level of detail is needed for all modeled actors, federal judges and any other system resources which the user may wish to examine.

The data collected and published in the "Allocation of Resources to U.S. Attorney's Offices: A Case-Weighting Approach" was used in estimating the processing times for various case events. Also special data runs were made to produce distributions of processing times for specific case events and activities of federal criminal cases.

Such studies are needed for both U.S. Attorneys and the judiciary in order to make most efficient use of simulation models.

# END

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