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REPORT	DOCUMENTATI	ON	PAGE			Form Approved OMB No. 0704-0188
12 REPORT SECURITY CLASSIFICATION UNCLASSIFIED		1b.	RESTRICTIV	/E MARKINGS		L
22. SECURITY CLASSIFICATION AUTHORITY 24. DECLASSIFICATION/DOWNGRADING SCHEDULE			<ul> <li>DISTRIBUTION /AVAILABILITY OF REPORT Approved for public release; distribution is unlimited.</li> </ul>			
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Monterey, CA 93943			Monterey	, CA 93943-:	5006	
NAME OF FUNDING/SPONSORING ORGANIZATION Naval Postgraduate School	8b. OFFICE SYMBOL ( <i>If applicable</i> )	9.	PROCUREÑ	IENT INSTRUMEN	IT IDENT	IFICATION NUMBER
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Monterey, CA 93943			MENT NO.	PROJECT NO.	TASK NO.	ACCESSION NO.
11. TITLE (Include Security Classification) An Approximation for Computing Reduction in Bandwidth Requirements using Intelligent Multiplexers						
12 PERSONAL AUTHOR(S)						
Lesley J. Henson 13a. TYPE OF REPORT 13b. TIME	COVERED	14 04	TE OF REPO	RT (Year, month daj	7 T 15 P	PAGE COUNT
Master's thesis FROM	TO		March, 199		10.1	85
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are shown in tabular form.						
20. DISTRIBUTION/AVAILABILITY OF ABSTRA	ĊT	21.		SECURITY CLASS	CIATION	
X UNCLASSIFIED/UNLIMITED SAME AS RPT. DTIC USERS UNCLASSIFIED						
22a. NAME OF RESPONSIBLE INDIVIDUAL P. Jacobs			(408) 646	Clinclude Area Code 5-2258	a) 2c.	OFFICE SYMBOL OR/Jc

DD Form 1473, JUN 86

Previous editions are obsolete. SECURITY CLASSIFICATION OF THIS PAGE S/N 0102-LF-014-6603 UNCLASSIFIED

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# An Approximation for Computing Reduction in Bandwidth Requirements using Intelligent Multiplexers

by

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Submitted in partial fulfillment of the requirements for the degree of

# MASTER OF SCIENCE IN OPERATIONS RESEARCH

From the

NAVAL POSTGRADUATE SCHOOL March 1993

### ABSTRACT

This paper stochastically models a single-node telecommunications system both with and without the use of intelligent multiplexing. Intelligent multiplexers take advantage of the idle periods or silences that occur during the course of speech transmissions to merge (or multiplex) packetized talkspurts from more than one source onto a single channel. This allows for a more efficient use of available bandwidth, thereby reducing the amount of bandwidth required to carry a particular traffic load. Digitizing speech into packets of equal size also allows for compression, further reducing bandwidth needs. By comparing the models for systems both with and without multiplexing, we are able to determine the reduction in bandwidth which may be expected for a particular grade of service (measured by blocking probabilities). A bivariate continuous time Markov chain model for a multiplexer is presented. An approximation is introduced to calculate limiting blocking probabilities much more quickly and for larger systems than is possible by solving a set of linear equations for the bivariate model. The accuracy of the approximation is explored through comparison with the bivariate model; the approximation provides a somewhat conservative estimate of blocking, but is close enough to be used as a tool for the range of relevant values. The approximation is then used to compare blocking probabilities for three different levels of speech activity. Results are shown in tabular form.

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The reader is cautioned that computer programs developed in this research may not have been exercised for all cases of interest. While every effort has been made, within the time available, to ensure that the programs are free of computational and logic errors, they cannot be considered validated. Any application of these programs without additional verification is at the risk of the user.

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### I. INTRODUCTION

The field of telecommunications has been advancing at a tremendous rate in recent years, assisted by the decreasing costs and increasing capability of microprocessors, as well as by deregulation of the industry. New products and capabilities are coming online at an astounding rate. It has become commonplace to transport data between computers with the use of modems along standard telephone lines at ever-increasing baud rates. More companies every day are opting to use video-conferencing as a replacement for time-consuming travel to business meetings. Fax machines are now priced for use in the home as well as in the office. Cellular phones for use in automobiles and airplanes make "getting away from it all" more difficult than ever. The latest sensation to hit the consumer market is a telephone with video screen to view the person on the other end of the phone line (if they have the same device, of course), also priced for home use. There seems to be no limit to the potential market for increasingly sophisticated (i.e. bandwidth intensive) telecommunications products.

In order to provide economical transmission of high bandwidth data, such as fax and video, it has become increasingly important to find inexpensive ways to increase bandwidth and to conserve the bandwidth available. A variety of technical innovations, such as fiber optic networks, data compression techniques, and multiplexers, have been developed to do just that.

# A. WHAT IS MULTIPLEXING?

Multiplexing techniques are designed to reduce bandwidth needs, thereby reducing costs, by sharing bandwidth among network users. Intelligent multiplexers accomplish this by sending the packetized information from a large number of channels onto a single wideband channel, without transmitting any of the silent periods. This achieves very high utilization rates along the single channel.

Intelligent multiplexers take advantage of the idle times that occur during the course of any telecommunications transmission to make more efficient use of available bandwidth. Speech conversations, for instance, are silent about 60% of the time; when one person is speaking, the other is normally silent and listens. Also, there are pauses between words and sentences. Data traffic often averages only 5-15% efficiency, tending to be bursty, occurring for a short time, then subsiding to occur some undetermined time later. These bursts of data traffic also have high bandwidth requirements.

There are two basic types of intelligent multiplexer on the market. The older of the two is referred to as statistical time-division multiplexing (STDM) or statistical packet multiplexing (SPM); the newer is called fast packet multiplexing (FPM). They are both microprocessor-based, meaning both higher efficiency and higher cost when compared with frequency division multiplexing and time division multiplexing. These newer technologies will consequently only begin to replace what is already in use as microprocessor price/performance ratios improve enough to justify the efficiency gains.

### **B. STANDARDS**

Due to the current lack of standards for intelligent multiplexing equipment, manufacturers have each designed their own intermachine communication systems, and no two systems are compatible. This creates problems when users of private networks want to tap into another private or public network. It can also make direct comparisons among various vendor products difficult for the potential buyer.

Standards bodies, such as the American National Standards Institute (ANSI), the International Telegraph and Telephone Consultative Committee (CCITT), and the Institute of Electrical and Electronic Engineers (IEEE), are working on standards for equipment which will likely supersede current multiplexer technology. Standards seem to be evolving in the direction of transmitting all information (speech, data, video, etc.) in the form of packets or "cells."

## C DEFENSE COMMUNICATIONS AGENCY INTEREST

The Defense Communications Agency (DCA) is extremely interested in exploring the capabilities of these new and emerging technologies in order to plan ahead for changes to MILDEP networks. Studies are ongoing to assess the various intelligent or "smart" multiplexer products on the market and to determine criteria on which to base future purchasing decisions [Ref. 1: pp. 1-23].

In the Advanced Design Group, headed by Dr. Martin Fischer, the inclusion of intelligent multiplexers (smart mux or smux) will affect the network topology design tools currently being developed. The key question for them, regarding the smart mux, is how much of a reduction in bandwidth

can be obtained by the use of intelligent multiplexers while maintaining current network performance levels. Their data base contains bandwidth costs based on AT&T tariffs as well as the cost data for several different brands of multiplexer. They also know how many channels are required to carry a particular traffic load, expressed in Erlangs, without the use of a smart multiplexer. A simple way to calculate the reduction in channels needed when multiplexers are added to the network would allow them to do comparative cost analyses.

# D. PURPOSE OF THIS STUDY

The purpose of this study is to find a simple, yet relatively accurate, way to determine the reduction in bandwidth which will result from adding intelligent multiplexers to a voice network. It will involve stochastically modeling a single node of a communications network, both with and without a multiplexer. Approximations to the more complicated stochastic model are then studied.

In the next section we provided a summary of the technology. In Section III we review some of the relevant literature. Section IV presents a description of the models studied, while Section V covers the approximation techniques used to compute limiting probabilities for those models. In Section VI we describe the programs used to perform the calculations and the validation techniques for the computer code. In Sections VII and VIII we discuss the numerical results and conclusions, respectively.

# II. DESCRIPTION OF THE TECHNOLOGY

### A. FREQUENCY DIVISION MULTIPLEXING

The oldest multiplexing technique is frequency division multiplexing (FDM). FDM divides the frequency spectrum of analog circuits into smaller narrowband segments. The narrowband implementation limits the data rates which can be used for remote networking [Ref. 2: p. 54].

### **B.** TIME DIVISION MULTIPLEXING

Time division multiplexing (TDM), which began to replace FDM when remote network data rates increased above 2400 bits per second (bps), divides the communication link into a fixed number of time slots. Each slot is assigned to a specific channel. Transmission occurs in a regular sequence, cycling through the channels. Bandwidth allocation is fixed, and is based on the size of the time slot allocated to each channel. TDM is relatively inexpensive to implement and introduces very little delay. However, TDM is not very efficient in the use of bandwidth. If a channel is idle, that time slot is not available for use by any other channel. Also, the silent periods of a voice or data transmission go unused. For combined voice and data traffic, TDM averages only 10-25% efficiency. TDM is unable to momentarily increase bandwidth for high-speed data due to the fixed time slots and bit rates. Thus, TDM is not well-suited to transporting a dynamically varying combination of voice, fax, and LAN traffic [Ref. 2: p. 54].

# C. STATISTICAL PACKET MULTIPLEXING

Statistical packet multiplexing solves both of the problems associated with TDM, that is, network efficiency and ability to dynamically allocate bandwidth, but has two drawbacks of its own. It introduces higher network delay and difficulty in predicting the amount of delay. Thus, SPM is not suited for time-sensitive information, such as voice and video traffic.

Instead of statically dividing the network bandwidth as in TDM, SPM dynamically allocates bandwidth to those channels passing data at the moment. Within the multiplexer (mux), SPM operates by gathering transmitted data from the active channel into a packet, appending identifying and control information, and passing the packet to the next multiplexer. The next mux checks for transmission errors (using the control information) and requests retransmission if errors are found. Any errors are corrected before the packet is sent on. The packetization of data also allows the originating multiplexer to easily perform various operations on the data, such as encryption and compression.

Due to the different advantages and disadvantages associated with both TDM and SPM, many networks in use today are hybrids that combine the two. TDM is used for time-sensitive information (voice, video, some synchronous data and LAN traffic) while SPM is used where higher network efficiency and dynamic bandwidth allocation are important (primarily asynchronous data, and some synchronous data and LAN traffic) [Ref. 2: p.55].

Descriptions of the first three multiplexing techniques may be found in references [Ref. 2: pp. 54-55, Ref. 3: pp. 112-113, and Ref. 4: pp. 165-188].

# D. FAST PACKET MULTIPLEXING

Fast packet multiplexing (FPM) is a generic term for remote networking techniques that satisfy the following criteria [Ref. 2:p. 54]:

- the ability to transport a dynamically varying combination of voice, fax, video, synchronous data, asynchronous data, and LAN (local area network) traffic;
- high network efficiency, typically 90% or better;
- low network delay;
- predictable delivery of time-sensitive information.

Fast packet multiplexing is the most recent of four main multiplexing techniques designed for use in telecommunications networks. It is very similar to statistical packet multiplexing. As with previous multiplexing techniques, it is a way to reduce bandwidth needs by sharing bandwidth among network users, thereby reducing costs.

Unlike the other multiplexing techniques, it is designed to efficiently transmit a wide variety of time-sensitive information along the same network.

FPM has the following characteristics [Ref. 2:pp. 56-59]:

- it gathers each incoming channel's data into equal size cells (packets) for delivery over the network;
- it begins to forward cells of a message before all cells are completely received; i.e. cells pass through the FPM device rather than into and then out of the device;
- it can interrupt the delivery of one channel's message in favor of delivering a more time-sensitive (i.e. higher priority) channel's message (using cell boundaries to determine where interruptions may occur);
- the time it takes to transmit a cell is directly related to both the cell size and the bit rate of the network (outgoing) link; low rates and large cell size increase transmission time. The cell size is fixed by making it

proportional to the bit rate of the network link. Since cell sizes and bit rates of the links are fixed, service times for each cell are equal;

• it eliminates idle bandwidth from the incoming channels and transmits only active information, so more calls can be in progress than the number of physical channels available.

# III. LITERATURE REVIEW

# A. QUEUEING THEORY

### 1. The Erlang B (Loss) Formula

Voice communication systems using time-division multiplexing are often modeled stochastically as queueing models, using the Erlang loss system [Ref. 5:pp. 79-81]. Here, it is assumed that calls are initiated according to a Poisson process with rate  $\lambda$ , service times are exponentially distributed with mean length  $\mu^{-1}$ , independent of each other and the arrival process; and if all servers (channels) are busy when a customer (caller) arrives, that customer cannot enter the system (gets a busy signal); that is, blocked customers are cleared (BCC). The ratio  $\lambda/\mu$  is the offered load *a*, expressed in Erlangs. For a given number of channels *c*, the limiting probability of *j* busy channels is given by the truncated Poisson distribution:

$$\lim_{t \to \infty} P_j(t) = P_j = \frac{\frac{(\lambda/\mu)^j}{j!}}{\sum_{k=0}^c \frac{(\lambda/\mu)^k}{k!}} \quad (j = 0, 1, ...c)$$
(1)

This formulation is also found in Ross [Ref. 6:p. 390].

The proportion of time that all *c* channels are busy is calculated by the Erlang B formula (or Erlang loss formula)

$$B(c,a) = \frac{a^c/c!}{\sum\limits_{k=0}^{c} a^k/k!},$$
(2)
where  $a = \lambda/\mu$ .

This formula is used to determine the number of channels c needed to achieve a particular blocking probability B(c,a), given the offered load a in Erlangs. By plotting the Erlang loss formula B(c,a) against increasing values of a, curves for fixed values of c are obtained [Ref. 5:pp. 316-317]. Tables of these values have also been created. The carried load a' is also easily calculated:

$$a' = a [1 - B(c,a)].$$
 (3)

This is part of the method currently in use at DCA to determine the number of channels required along any particular trunk in the network modeling process for a given load.

### **B. MULTIPLEXER MODELS**

Numerous models for various types of multiplexer have been developed. Similar models are used to analyze both computer and communication networks. A data-handling computer network is modeled by Anick, Mitra, and Sondhi [Ref. 7:pp. 1871-1894] using differential equations to describe the equilibrium buffer distribution. The model is used to determine the appropriate buffer size for a particular number of sources and grade of service. It is also used to determine the maximum number of sources to be allowed in the system. Integrated voice-data multiplexers are modeled in references [Ref. 8:pp. 8-14, Ref. 9:pp. 1124-1132, Ref. 10:pp. 833-846, and Ref. 11:pp. 1003-1009]. The first reference [Ref. 8:pp. 8-14] uses a continous-time queueing model which models performance of a flow control scheme for a movable boundary voice-data multiplexer and develops a decision rule based on data queue length to cutoff the priority of voice. Reference [Ref. 9:pp. 1124-1132] compares two different voice-data multiplexer schemes, both of which use the movable boundary frame allocation scheme. The second scheme uses speech activity detectors (SAD's) so that the multiplexer also performs digital speech interpolation. This allows utilization of talker silences for transmission of additional voice and/or data. Performance measures include: probability of loss for voice calls, probability of speech clipping, speech packet rejection ratio, and expected message delay. The third reference [Ref. 10:pp. 833-846] uses the index of dispersion for intervals (IDI) as a measurement tool to characterize the complex arrival process resulting from superposition of separate voice streams. The paper also describes delays experienced by voice and data packets using a two-parameter approximation. The fourth reference [Ref. 11:pp. 1003-1009] models wideband packet technology integrating packetized voice and data using statistical multiplexing. It incorporates a flexible bandwidth allocation scheme with bit dropping; results using simulation show good voice quality, low delay and packet loss, efficient use of transmission bandwidth, and protection in overload. References [Ref. 12:pp. 847-855, Ref. 13:pp. 41-56, Ref. 14:pp. 703-712, and Ref. 15:pp. 718-728] all model packet voice multiplexers. Reference [Ref. 12:pp. 847-855] describes three models; a semi-Markov process, a continuous-time Markov chain, and a uniform arrival and service model; then compares numerical results of the queueing behavior of the three models to each other and to a discrete-event simulation and an M/D/1 analysis. All models assume multiple independent voice sources which form a queue for first-in-first-out (FIFO) service along a finite-capacity communications link. The second reference [Ref. 13:pp. 41-56] develops methodologies for evaluating the performance of variable bit rate voice

under the following two conditions: (1) at a fixed load when instantaneous fluctuations occur due to talker activity/inactivity and (2) under variable load when variations occur due to call on/off. The authors use a Markov chain model in conjunction with a software package to emulate packetized voice and describe the probabilistic bit-dropping pattern under various loading and traffic conditions. The third reference [Ref. 14:pp. 703-712] uses simulation and analytic modeling (M/D/1/K) to examine performance of a packet voice multiplexer queue which employs bit dropping during periods of congestion. Results indicate that significant capacity and performance advantages are gained in the multiplexer as a result of dropping the least significant bits when the system is congested. The fourth reference [Ref. 15:pp. 718-728] also uses an M/D/1/K queueing model for measuring performance of a voice packet network which uses bit dropping.

For purposes of this paper we have chosen a model which allows no queue to develop (blocked customers are cleared). Rather, we focus on the proportion of time that blocking occurs. That is, we assume that voice calls are so time-sensitive that no waiting time can be tolerated, so they are dropped (denied transmission) to avoid congestion. This is not a completely accurate description of what occurs in the multiplexer, however, we hope that it provides an adequate, albeit conservative approach.

### IV. MODEL DEVELOPMENT

### A. THE ERLANG MODEL

The first step toward developing the multiplexer model is to enhance the Erlang model with the addition of talkspurts. This will be used as a basis for the multiplexer model and also as a comparison model by which to measure the relative performance increase once a multiplexer is added.

### 1. Variables

In what follows, the following variables were used:

C(t) is used to represent the number of calls in progress at time t.

A(t) is used to represent the number of talkspurts (active calls) at time t.

K is the maximum number of calls allowed (= the number of channels).

Lambda ( $\lambda$ ) is the call initiation rate (in call initiations per second).

Mu  $(\mu)$  is the call termination rate (in call terminations per second).

 $\mu^{-1}$  is the mean time (in seconds) that a call is in progress.

Alpha ( $\alpha$ ) is the talkspurt initiation rate (in initiations per second).

Beta ( $\beta$ ) is the talkspurt termination rate (in terminations per second).

 $\alpha^{-1}$  is the mean length of a silent period (in seconds).

 $\beta^{-1}$  is the mean time (in seconds) of talkspurt duration.

- $\alpha/(\alpha + \beta)$  is the proportion of time that a call in progress of infinite duration is active.
- $\beta/(\alpha + \beta)$  is the proportion of time that a call in progress of infinite duration is silent.

### 2. Model Assumptions

It is assumed that calls are initiated in accordance with a Poisson process with mean rate  $\lambda$ . The length of a call in progress is exponential with mean  $\mu^{-1}$ . Blocked calls (customers) are cleared; that is, new calls are prevented from initiation if all available channels are in use. Let {C(t); t  $\geq$  0} be the number of calls in progress at time t.

Calls in progress alternate between active and inactive states as talkspurts are initiated and terminated. We model this process as an alternating renewal process where the length of the talkspurt is exponential with mean  $\beta^{-1}$  and the length of a silent period is exponential with mean  $\alpha^{-1}$ . Let {A(t); t ≥ 0} be the number of calls in progress that are active at time t. Note that A(t) ≤ C(t).

It is also assumed that when a new call is initiated, it is immediately active; that is, a talkspurt is simultaneously initiated. When a call terminates, it may do so from either an active or inactive state.

### 3. Description

The model is a two-dimensional birth-and-death queueing model. It maintains the Markov property inherent in one-dimensional birth-and-death queueing systems, i.e the system occupies "states," and the rates at which changes of state occur depend only on the instantaneous state of the system and not on the past history of the process. However, two variables are required to define the state space. The bivariate process  $\{(C(t), A(t)); t \ge 0\}$  is a continuous time Markov chain with the following:

$$\begin{split} & P\{C(t+h)=c, A(t+h)=a \mid C(t)=k, A(t)=j\} \\ & = [\lambda h + o(h)] \ I(j \le k) \ I(k < K) & \text{if} \quad c=k+1, a=j+1, \\ & = [(k-j)\alpha h + o(h)] \ I(j \le k) \ I(j > 0) & \text{if} \quad c=k, a=j+1, \\ & = [j\beta h + o(h)] \ I(j \le k) \ I(j > 0) \ I(j \le k) & \text{if} \quad c=k, a=j-1, \\ & = [\mu(k-j)h + o(h)] \ I(j > 0) \ I(j \le k) & \text{if} \quad c=k, a=j-1, \\ & = 0 & \text{otherwise}, \end{split}$$

where 
$$I(x < y) = \begin{cases} 1 \text{ if } x < y \\ 0 \text{ if } x \ge y \end{cases}$$

A rate diagram for this model, where the maximum number of available channels is three, is shown below in Figure 1; see [Ref. 6:p. 360] for discussion of transition rate diagrams.

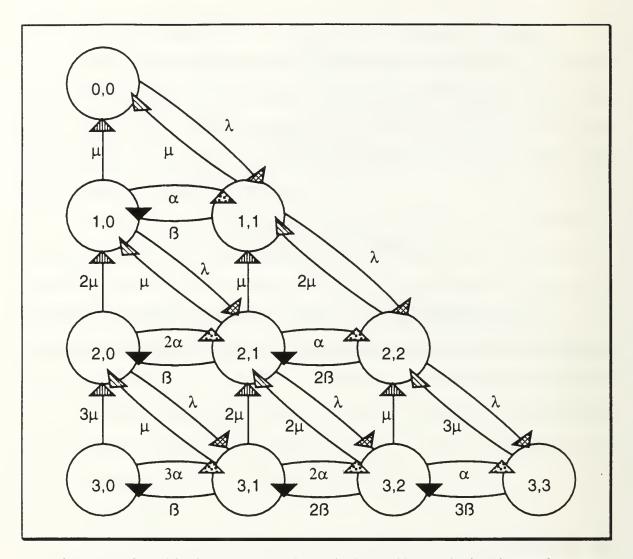


Figure 1. Graphical Representation of Three-Channel Bivariate Erlang System

Conservation-of-flow ("rate out = rate in") equations may be used to describe the system in equilibrium [Ref. 5:pp. 3-4]. We let the  $\lim_{t\to\infty} P\{C(t) = k, A(t) = j\} = \Pi\{k,j\}$ , where (k=0,1,...,K) and (j=0,1,...,k) represent the limiting distribution. The conservation-of-flow equations, which equate the rate the system leaves each state to the rate at which it enters that state, are shown below for a system with three available channels:

λΠ{0,0}	$= \mu \Pi \{1,0\} + \mu \Pi \{1,1\},\$
$(\alpha+\lambda+\mu)\Pi\{1,0\}$	$= \beta \Pi \{1,1\} + 2\mu \Pi \{2,0\} + \mu \Pi \{2,1\},$
$(\beta+\lambda+\mu)\Pi\{1,1\}$	$= \lambda \Pi \{0,0\} + \alpha \Pi \{1,0\} + \mu \Pi \{2,1\} + 2\mu \Pi \{2,2\},$
$(2\alpha+\lambda+2\mu)\Pi\{2,0\}$	$= \beta \Pi \{2,1\} + 3\mu \Pi \{3,0\} + \mu \Pi \{3,1\},$
$(\alpha + \beta + \lambda + 2\mu)\Pi\{2,1\}$	$= \lambda \Pi \{1,0\} + 2\alpha \Pi \{2,0\} + 2\beta \Pi \{2,2\} + 2\mu \Pi \{3,1\} + 2\mu \Pi \{3,2\},$
$(2\beta+\lambda+2\mu)\Pi\{2,2\}$	$= \lambda \Pi \{1,1\} + \alpha \Pi \{2,1\} + \mu \Pi \{3,2\} + 3\mu \Pi \{3,3\},$
$(3\alpha + 3\mu)\Pi{3,0}$	$= \beta \Pi \{3,1\},$
$(2\alpha+\beta+3\mu)\Pi\{3,1\}$	$= \lambda \Pi \{2,0\} + 3\alpha \Pi \{3,0\} + 2\beta \Pi \{3,2\},$
$(\alpha+2\beta+3\mu)\Pi\{3,2\}$	$= \lambda \Pi \{2,1\} + 2\alpha \Pi \{3,1\} + 3\beta \Pi \{3,3\},$
$(3\beta + 3\mu)\Pi{3,3}$	$= \lambda \Pi \{2,2\} + \alpha \Pi \{3,2\}.$

The sum of the terms on the left-hand side (rates out) is equal to the sum of the terms on the right-hand side (rates in). Any one of these equations is, thus, redundant and may be ignored. The remaining equations, along with the normalization equation

$$\sum_{k=0}^{3} \sum_{j=0}^{k} \prod\{k, j\} = 1,$$

uniquely determine the limiting probabilities.

# 4. Parameter Values

If the average length of a phone call  $(\mu^{-1})$  is taken to be 180 seconds (three minutes), then  $\mu = 1+180$ . The length of a talkspurt  $(\beta^{-1})$  must be shorter than the length of a phone call for the model to be reasonable. We also want to maintain the proper proportion between the length of talkspurts and silent periods. Speech activity ranges from 28% to 42% depending on cultural and language characteristics of the user population [Ref. 16:p. 1]. If voice conversations are assumed silent 60% of the time, then we need to have  $\beta$ +( $\alpha$ + $\beta$ ) = 0.60. The input value for  $\lambda$  is treated as variable; increasing the value of  $\lambda$  corresponds to an increasing load on the system, where load is defined to be  $\lambda$ + $\mu$ . Increasing the load increases the blocking probability. The maximum number of channels is also treated as variable. Increasing the number of channels decreases the blocking probability.

# B. THE MULTIPLEXER MODEL

The multiplexer model begins with the Erlang model as described above, then adds the three main features which are characteristic of how a multiplexer functions. The first and most important distinguishing characteristic of the multiplexer is that it allows more calls in progress than the actual physical number of channels. This is accomplished by taking advantage of the silent periods in each conversation to merge together packetized talkspurts from multiple conversations. Secondly, it compresses the packetized talkspurt to a fraction of its original length. Third, and lastly, it appends header information to each packet, to allow the talkspurt to be recreated at the destination node. See [Ref. 17:p. 430] for additional discussion of the information contained in the packet header.

# 1. Variables

The following are additional variables that appear in the multiplexer model. A new variable (J) is added, and the value of K is redefined. Also,  $\beta^{-1}$  is replaced by  $(\beta^{-1})^*$ , and service rate (s) is added.

J is the maximum number of talkspurts allowed (equal to the number of physical channels).

K is the maximum number of calls allowed to be in progress (may be several times greater than J).

 $(\beta^{-1})^*$  is the new mean talkspurt length in units of bits per talkspurt after compression and addition of packet headers.

b is the number of bits per second produced by the coding scheme.

s, the service rate in bits per second, is simply the outgoing channel rate (of the wideband channel).

 $\beta^*$ s is the new departure or service rate of talkspurts (in talkspurts per second), where  $\beta^*$  is the inverse of  $(\beta^{-1})^*$ .

# 2. Additional Model Assumptions for the Multiplexer Model

Although more calls than channels are allowed, new calls are blocked when the number of active calls in progress (talkspurts) equals the number of available channels. Voice packets belonging to a call in progress are also blocked (lost or "clipped") when the number of active calls in progress equals the number of available channels.

### 3. Description

In the multiplexer, all talkspurts from all incoming channels flow through a buffer, where they are "packetized" and sent forward along a single wideband channel. The multiplexer divides talkspurts into fixed size packets and attaches certain header information that allows the talkspurt to be reconstructed at the destination node by a demultiplexer. The multiplexer can also compress the packetized information so that it uses fewer bits, thus occupying less space as it moves through the channel. Typical compression schemes use either a 2-to-1 or 4-to-1 rate of compression.

The intelligent multiplexer model is also a bivariate process  $\{(C(t), A(t)); t \ge 0\}$  and a continuous-time Markov chain with the following:

$$\begin{split} & P\{C(t+h)=c, A(t+h)=a \mid C(t)=k, A(t)=j\} \\ & = [\lambda h + o(h)] I(j < J) I(k < K) & \text{if } c=k+1, a=j+1, \\ & = [(k-j)\alpha h + o(h)] I(j < J) I(j < k \le K) & \text{if } c=k, a=j+1, \\ & = [j(\beta^*s)h + o(h)] I(0 < j < J) I(k \le K) I(j \le k) & \text{if } c=k, a=j-1, \\ & = [\mu jh + o(h)] I(k > 0) I(0 < j \le k \le K) I(j < J) & \text{if } c=k-1, a=j-1, \\ & = [\mu(k-j)h + o(h)] I(0 < j < J) I(j < k < K) & \text{if } c=k, a=j-1, \\ & = 0 & \text{otherwise,} \end{split}$$

where 
$$I(x < y) = \begin{cases} 1 & \text{if } x < y \\ 0 & \text{if } x \ge y \end{cases}$$

A rate diagram for the multiplexer model, where the maximum number of available channels is three, is shown below in Figure 2; see [Ref. 6:p. 360] for discussion of transition rate diagrams.

In the multiplexer model, there can be two types of blocking. Outside calls can be blocked from initiation (external blocking) and calls in progress can be blocked from transmitting a talkspurt (internal blocking). Both kinds of blocking occur when the number of talkspurts (active calls) is at the line capacity

$$\lim_{t\to\infty} P\{A(t)=J\} = \sum_{k=J}^{K} \lim_{t\to\infty} P\{C(t)=k, A(t)=J\}.$$

The blocking of calls from initiation also occurs when the number of calls in progress is at the maximum allowed (C(t)=K). The proportion of time this occurs is given by

$$\lim_{t\to\infty} P\{C(t)=K\} = \sum_{j=0}^{J} \lim_{t\to\infty} P\{C(t)=K, A(t)=j\}.$$

In comparison, blocking in the Erlang model occurs only when the number of calls in progress equals the number of physical channels. There is

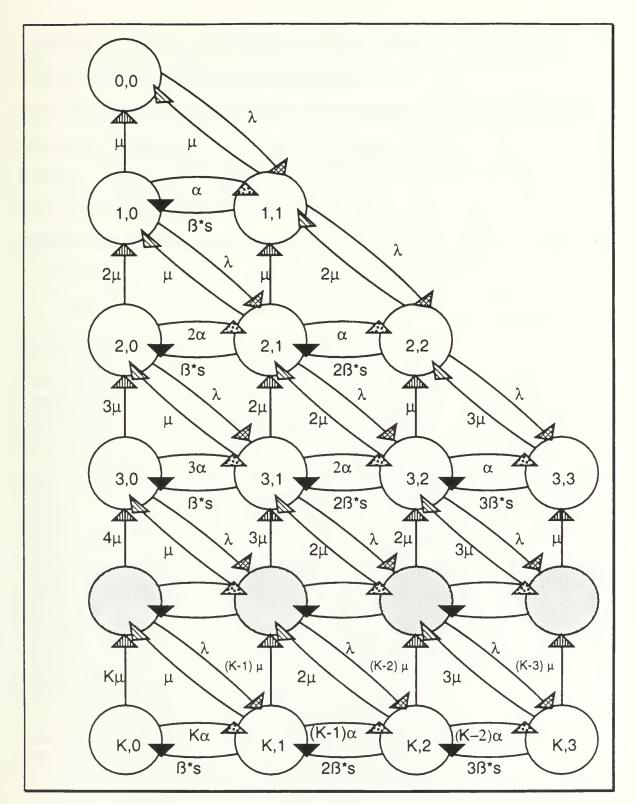


Figure 2. Graphical Representation of Three-Channel Smart Mux Model

no internal blocking. Note that under reasonable loading it is possible for  $A(t) \le J \le C(t) \le K$ , where J is the maximum number of active calls that the transmission line can support and K is the maximum number of calls allowed in the system. For purposes of this paper, we will refer to the external blocking that occurs when C(t)=K as outer blocking. The internal and external blocking that occurs when A(t)=J will be called inner blocking. By adding the two together and subtracting out the joint limiting probability that {C(t)=K, A(t)=J}, we get the total probability of blocking.

### D. PARAMETER VALUES

The value for length of talkspurts ( $\beta^{-1}$ ) in the Erlang model changes in the multiplexer case to account for both compression of the packetized talkspurt and for header information appended to each packet. Packet lengths are expressed in terms of bits rather than time, but can be converted to units of time if given the line rate of the transmission medium in terms of bits per second (bps). The voice packet size depends on the coding scheme used. For 32 Kbps, ADPCM coding, and a packetization period of T=16 milliseconds (ms), the packet size is 512 bits or 64 bytes (there are 8 bits per byte), plus a header [Ref. 16:p. 1]. A talkspurt of 352 ms is divided into 352+16 = 22 packets and contains a total of 11264 bits (1408 bytes). Each packet is then compressed. A compression factor of four reduces each packet to 128 bits. Appending a packet header of 10 bytes to each compressed packet increases the length to 208 bits (26 bytes). Thus the number of bits in a talkspurt of 352 ms is 4576 after compression and addition of headers. This compression and addition of packet headers to alter the original mean talkspurt length,  $\beta^{-1}$  (in units of seconds), results in the new mean talkspurt length in units of bits,  $(\beta^{-1})^*$ , defined in the multiplexer model as follows:

 $(\beta^{-1})^* = \beta^{-1} \times T^{-1} \times (\# \text{ bits/packet}) \times ((1 + \text{ compress}) + \text{ header proportion})$ 

=  $\beta^{-1} \times b \times ((1 + \text{ compress}) + \text{ header proportion})$ 

= number of bits per average talkspurt,

where b, the number of bits per second produced by the coding scheme, is equivalent to the number of bits per packet (e.g. 512) divided by the packetization period T (e.g. 16 ms per packet). Also note that  $\beta^{-1} \times T^{-1}$  is equal to the mean number of packets in a talkspurt.

Compress is set equal to four (4) to indicate a 4-to-1 compression of data by the multiplexer. Packet header information is assumed to be 10 bytes (attached to a 64 byte packet), [Ref. 16], for a header proportion of 10+64 = .15625.

In addition, the service rate of the outgoing channel is now many times larger than any of the incoming channels. The Defense Communications Agency commonly uses T1 lines, which carry 1.544 Mbps (1.536 Mbps after accounting for the signalling channel). The T1 lines may be divided into 1.536 Mbps+32 Kbps = 48 separate channels. Therefore the outgoing T1 rate is 48 times larger than the rate of the encoding scheme. A talkspurt of 352 ms (without compression and addition of packet header) will take 11264 bits+1.536 Mbps = 0.073 ms to transmit on a T1 line.

In this multiplexer model, however, we do not necessarily want to assume full T1 rates for the outgoing channel. Rather, we need to be able to look at fractional T1 rates for lighter traffic loads, so we assume that the outgoing rate is equal to 32 Kbps multiplied by the maximum number of

active calls allowed (labeled J in the multiplexer model described above; labeled A in the computer code). The incoming channel rate is set equal to b = 32 Kbps. The ratio of the outgoing channel rate to the rate of an active incoming channel is set equal to J. In the multiplexer model, J × b is defined as the service rate, s. The termination rate for talkspurts in the multiplexer model is given by  $\beta^*s$ .

# V. APPROXIMATIONS

### A. THE ERLANG MODEL APPROXIMATION

As noted earlier, the truncated Poisson formula is used to calculate the limiting probabilities for an Erlang loss system with maximum K channels and input parameters  $\lambda$  and  $\mu$ ; that is, a model for the calls in progress  $\{C(t); t \ge 0\}$  is a continuous time Markov chain with transition rate diagram shown in Figure 3 [Ref. 6:p. 360].

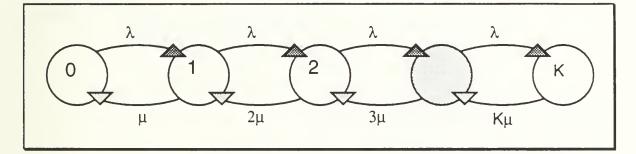


Figure 3. Transition Rate Diagram for Calls in Progress

To deal with the bivariate Erlang system, we need to consider the two additional parameters ( $\alpha$  and  $\beta$ ) which describe talkspurt initiation and termination. Fix the number of calls in progress equal to  $k \leq K$ . A model for the number of active calls in progress is a continuous time Markov chain with the rate diagram shown in Figure 4. Since the calls in progress are independent of each other, the limiting distribution of having j active calls is described by the binomial distribution;

$$\lim_{t \to \infty} P\{A(t) = j | k \text{ calls in progress}\} = {\binom{k}{j}} \left(\frac{\alpha}{\alpha + \beta}\right)^{j} \left(\frac{\beta}{\alpha + \beta}\right)^{k-j}.$$
 (4)

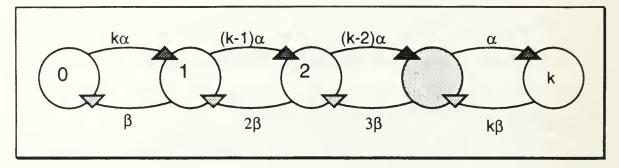


Figure 4. Transition Rate Diagram for Active Calls in Progress

Limiting probabilities for the bivariate Erlang system can be approximated by combining the truncated Poisson distribution (1) with the binomial;

$$\lim_{t \to \infty} P\{A(t) = j, C(t) = k\} = \frac{\frac{(\lambda/\mu)^{k}}{k!}}{\sum_{i=0}^{K} \frac{(\lambda/\mu)^{i}}{i!}} {\binom{k}{j}} \left(\frac{\alpha}{\alpha+\beta}\right)^{j} \left(\frac{\beta}{\alpha+\beta}\right)^{k-j},$$
(5)

where (k = 0, 1, ..., K) and (j = 0, 1, ..., k).

## B. THE MULTIPLEXER MODEL APPROXIMATION

For the multiplexer model, the binomial probability of having j talkspurts, given k calls in progress, must be adjusted to reflect the new restriction that the number of talkspurts cannot exceed the number of physical channels J, and that J may be less than k. The following form of the truncated binomial [Ref. 5:p. 109] was used rather than the binomial distribution used in the Erlang model.

$$P_{j}(k) = \lim_{t \to \infty} P\{A(t) = j | k \text{ calls always in progress}\} = {\binom{k}{j}} \left(\frac{\alpha}{\beta * s}\right)^{j} P_{0}(k),$$
(6)

where 
$$P_0(k) = \left[\sum_{j=0}^{J} {k \choose j} \left(\frac{\alpha}{\beta * s}\right)^j\right]^{-1}$$

for  $j \le k$ , where (k = 0, 1, ..., K) and (j = 0, 1, ..., J).

The truncated Poisson distribution (1) is still used to find the probability of k calls in progress (k=0,1...,K), but now it yields an approximate rather than an actual limiting probability, since it fails to account for the additional internal blocking in the multiplexer model. Thus, the truncated Poisson yields a conservative estimate of the external blocking that occurs when the maximum allowed number of calls are in progress (outer blocking).

The joint approximate limiting probabilities for the multiplexer model are similarly found by multiplying the truncated Poisson by the truncated binomial; that is,

$$\lim_{i \to \infty} P\{C(t) = k, A(t) = j\} = \left[\frac{\frac{(\lambda/\mu)^k}{k!}}{\sum_{k=0}^{\kappa} \frac{(\lambda/\mu)^k}{k!}}\right] \left[\frac{\binom{k}{j} \left(\frac{\alpha}{\beta * s}\right)^j}{\sum_{j=0}^{j} \binom{k}{j} \left(\frac{\alpha}{\beta * s}\right)^j}\right],\tag{7}$$

for  $j \le k$ , where (k = 0, 1, ..., K) and (j = 0, 1, ..., J).

## **VI. SOLUTION TECHNIQUES**

### A. SOLVING SETS OF LINEAR EQUATIONS

Two programs were written to solve the system of linear equations determining the limiting distribution (for both the Erlang and the multiplexer models). One uses GAMS [Ref. 18], which is a software package developed to solve large mathematical (linear and non-linear) programming models. The other uses APL to solve the system of equations through matrix inversion and was developed by Professor Patricia Jacobs of the Naval Postgraduate School. The GAMS programs may be found in Appendix A (Erlang model) and Appendix B (multiplexer model). The APL program for the multiplexer model, in Appendix C, may also be used to solve the Erlangian system with-some adjustments to the input variables.

This solution technique, though accurate, was found to be useful only for small problems. Using an IBM mainframe computer, the GAMS programs were solvable for systems of about 15 channels in the Erlang model (with a load of 15 Erlangs). Beyond that, the solver encounters overflow problems. For discussion of the computational instability of solving the matrix equations and alternative solution techniques, see Anick, Mitra, and Sondhi [Ref. 7:pp. 1873-1874]. The APL programs MATRIXE and MATRIXM were solved using APL2 on an IBM mainframe. Without increasing the workspace size beyond the default, it is possible to solve for systems of up to size  $21 \times 21$ ; that is, where 21 is the number of both the maximum number of calls in progress and the maximum number of active calls in progress allowed (253 states). It is possible to increase the size of the workspace from the default of 65% to a maximum of 85%, and thereby increase the size of the matrix which can be solved. However, it takes a long time to solve the larger systems, especially when creating tables of multiple runs.

### **B. APPROXIMATION**

The approximation routine APPROX, written in APL, calculates the limiting probabilities for both the Erlang and the multiplexer models. It may be found in Appendix D. The approximation routine is much faster than solving the sets of linear equations required to find the limiting distribution of the bivariate models. It is also able to solve larger problems, given the same APL workspace size. On the IBM mainframe APPROX can solve problems up to size  $32 \times 32$  (561 states) before encountering underflow errors in the results (due to extremely small limiting probabilities, on the order of 1E-75 or smaller). The approximation will solve for systems of up to C = 175(maximum calls in progress allowed) without halting due to domain errors (numbers larger than 1E75 in the intermediate calculations). Results from these larger systems may, however, be inaccurate due to the underflow errors mentioned above, depending on the value of A (number of physical channels). For instance, when solving for a system with C equal to 40, the approximation was able to calculate the results for as many as A = 33 channels before encountering underflow errors.

#### C. VALIDATION OF THE COMPUTER CODE

#### 1. Validating Code for the Erlang Model

The computer code was validated in two ways. First the results for one, two and three-channel systems were calculated by hand for a particular set of values for  $\lambda$ ,  $\mu$ ,  $\alpha$  and  $\beta$  to ensure that results matched those of the computer programs. Second, numerous cases were calculated using both the APL (MATRIXE) and the GAMS (ERLANG) programs to ensure that the two different programs yield the same results. The APL (APPROX) program for the Erlang model was then compared with results from APL (MATRIXE) to ensure that the approximation routine yields results which are close to the actual limiting probabilities.

### 2. Validating Code for the Multiplexer Model

The multiplexer codes (MUX in GAMS and MATRIXM in APL) were first validated by ensuring they yield the same results as the Erlang codes (ERLANG in GAMS and MATRIXE in APL) when all the same parameter values are used as inputs (i.e. no change in the service rate, no compression or packet header, and the number of channels J equals the maximum number of calls allowed K). The APL (MATRIXM) and GAMS (MUX) programs were also compared to each other to ensure the same results for various sets of input parameters. Results were also checked for internal consistency; that is, individual input parameter values were changed separately to check that the output values change as expected. Finally, the results of the APL (APPROX) program for the multiplexer model were compared with those of the APL (MATRIXM) program to check the validity of the approximation routine and determine the range of values over which the approximation yields results close enough to be used as a tool in determining the reduction in bandwidth requirements.

## VII. NUMERICAL RESULTS

### A. ACTUAL VS. APPROXIMATED BLOCKING PROBABILITIES

Results of several comparisons between the actual (MATRIXM) and approximated (APPROX) multiplexer model are shown in Appendix E. Comparisons were made for systems allowing a maximum of C = 5, 10, 15, 20, and 30 callers, assuming speech activity (average proportion of time a call in progress is active) of 35%. Traffic loads displayed depend on the value for C; the larger the value for C, the heavier the loads, though not larger than the value for C itself. This restricts the results, and analysis of those results, to the range of values for blocking probabilities which might be considered reasonable to plan for when designing a telecommunications system.

The results shown in Appendix E indicate that the approximated outer blocking (OUTBLA) becomes very close to the actual value (OUTBL) as the gap between A (number of channels) and C (maximum number of calls allowed) decreases. In fact, when A equals C, OUTBL and OUTBLA are also equal. The approximated inner blocking (INBLA) also becomes closer in value to actual inner blocking (INBL) as A and C become closer. The probability of inner blocking decreases, becoming zero when A equals C. The size of the limiting probability of inner blocking is, therefore, also closely linked to the difference between the actual and approximated outer blocking probabilities. As inner blocking decreases, OUTBLA becomes closer to the actual values. Note that there is a trade-off between outer and inner blocking. Inner blocking increases as the gap between A and C increases, while outer blocking decreases.

The question is, at what point are the approximations close enough to the actual values to be used to determine limiting probabilities; that is, how close does A need to be to C? For inner blocking probabilities, the approximation results are extremely close to the actual values for even large relative gaps between A and C. For instance, when C = 5, 10, 15, 20, and 30, INBLA is accurate to 3 decimal places when A = 2, 3, 4, 4, and 5, respectively (for all traffic loads displayed). Also, when INBLA is accurate to 3 decimal places, the first 2 decimal places hold zeros. For the same values of C and the same traffic loads, OUTBLA is accurate to approximately 2 decimal places for A = 3, 3, 4, 4, and 5, respectively. Thus, INBLA is somewhat more accurate than OUTBLA and the size of the values for INBLA may be a good predictor of the accuracy of both INBLA and OUTBLA. Suppose we develop a 'thumb rule' that states: when INBLA is equal to zero in the first 'x' decimal places, (a) INBLA is accurate to within 'x+1' decimal places, and (b) OUTBLA is accurate to within 'x' decimal places. Close examination of the results in Appendix E indicate that our thumb rule is accurate for all values of C, A, and load shown, if the values for OUTBL are rounded to 'x' decimal places for comparison with OUTBLA. Thus, by using the approximated inner and outer blocking together, we can tell fairly accurately how close (within number of decimal places) OUTBLA is to the actual outer blocking probability by looking at the proportion of inner blocking.

As to answering the question posed, i.e. how close must A be to C for accurate results, the response depends on two things; (1) the level of accuracy

desired, and (2) the value of C. For telephone traffic engineering purposes, the level of accuracy necessary is generally 2 or 3 decimal places, so we want the values for INBLA to have zeros in at least the first 2 decimal places. Clearly, the ratio of A to C necessary for accurate results decreases as C gets larger.

Having developed a thumb rule methodology for determining the accuracy of the multiplexer approximation results without direct comparison with actual values, we may now look at the results of the approximation independently, allowing analysis of larger systems. The approximate results are much more quickly obtained, making it feasible to conduct multiple runs for different levels of speech activity. Analysis of these results, displayed in Appendix F, is the subject of the next section.

## B. SENSITIVITY ANALYSIS OF THE APPROXIMATED INNER BLOCKING PROBABILITIES

The approximation routine for the multiplexer model was run for different values of the initial mean length of a talkspurt,  $\beta^{-1}$ , and mean length of a silence,  $\alpha^{-1}$ , such that speech activity occupies 28 percent, 35 percent, and 42 percent of a call in progress. This was to determine sensitivity of the inner blocking probabilities (4) to changes in speech characteristics. Since the approximated outer blocking probability is calculated from the Erlang loss formula (2), it is not affected by any parameters other than  $\lambda$ ,  $\mu$ , and K.

The average length of a phone call,  $\mu^{-1}$ , was taken to be 180 seconds (3 minutes) for all runs. Speech activity rates considered were 28, 35 and 42 percent. The mean talkspurt and silence lengths are assumed to be 288 ms and 740 ms for the first case, 352 ms and 650 ms for the second case, and 420 ms

and 580 ms for the third case, respectively. Values for the last two cases are the same as those used by Sriram and Lucantoni [Ref. 14:pp. 703-712].

Results of runs for C = 5, 10, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125, 150, and 160 are given in Appendix F. To use the table in Appendix F, you first find the load (column 1) for which outer blocking probability (column 2) is less than or equal to a specified value, say 0.01. In the case of C = 20, the corresponding load is 12. The next three columns give the approximate inner blocking probability for speech activity rates of 28, 35, and 42 percent, respectively. The most conservative (highest) estimate of inner blocking would, of course, be found in the last column, representing the 42% activity level. If you wish a total blocking probability of no more than 0.01, accurate to within 2 decimal places, then you find the value of A for which, given a load of 12, the value for inner(42) is zero in at least the first 2 decimal places, and the addition of the outer and inner(42) blocking probabilities is closest to, but still no greater than, 0.01. Notice that we are not subtracting out the joint blocking probability (as on page 21) after adding together the inner and outer blocking probabilities. This is primarily because the joint blocking probabilities are so small as to be insignificant to the results of the calculations. Also, any error thus induced would be on the side of conservatism, and therefore tolerable. For this example, the value for A (number of channels) which meets the requirement is 5, which is one-fourth of the value for C (maximum number of callers).

Figure 5 shows a graphical representation of the data from Appendix F, for C = 20 callers and speech activity of 35%. It actually represents two graphs superimposed on each other. The one graph shows <u>outer</u> blocking probability

versus load when C (maximum number of callers allowed) is equal to 20. This is calculated using the Erlang loss formula (2). Curves for C<20 would be higher and to the left of the curve for C=20 (+ symbol); curves for C>20 would be lower and to the right. Graphs showing the curves for selected values of C ranging from 1 to 80 may be found in Cooper [Ref. 5, pp. 316-319]. Cooper uses different symbols and also uses a logarithmic scale for the blocking probabilities, which gives a different shape to the curves. The calculations and results, however, are the same. The other graph displayed in Figure 5 is inner blocking probability versus load for various values of A (A = 3, 4, 5, 6) when C=20 and speech activity is 35%. Remember that the value for A represents the number of channels (or equivalent bandwidth) available. The goal is to minimize the value of A while maintaining a specified standard of service; in this case, total probability of blocking no greater than .01.

From Appendix F we see that when C=20 and the load is 12 erlangs, the outer blocking probability equals .009796, and 12 is the highest load the system can take without exceeding the .01 limit on total blocking. Inner blocking can be no greater than .000204. We must find the value for A which satisfies this requirement. For speech activity of 35%, A=5 channels is sufficient, with inner blocking of .000148. Three channels is clearly too few, four channels will only work at the 28% level of speech activity, and six channels exceeds the standard of service required.

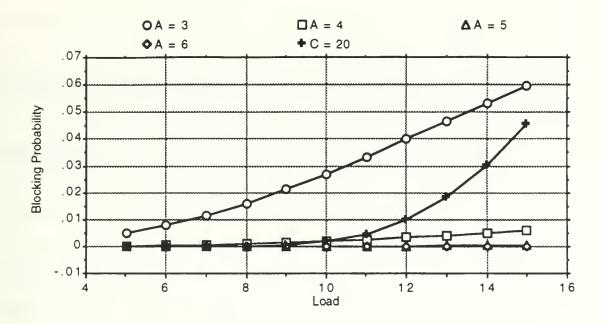


Figure 5. Outer Blocking Probability vs. Load for C = 20, shown with Inner Blocking Probability vs. Load for various values of A (given C = 20), assuming 35% speech activity. From Appendix F.

Given specific criteria for desired blocking probabilities and accuracy levels, we can make tables of the values for the load and for A necessary to meet those criteria for each value of C. Conversely, if the load is fixed, there is a specific value for C which will meet the desired blocking probability. We can also determine the magnitude of the effect that the proportion of speech activity has on the value of A chosen. Table 1 below is an example, where the desired total blocking probability (again ignoring joint blocking) is no greater than 0.01 and is accurate to within three decimal places. The data from Table 1 are graphically depicted in Figures 6 through 8.

TABLE 1. VALUES OF A FOR GIVEN LEVELS OF SPEECH ACTIVITY, WITH TOTAL BLOCKING NO GREATER THAN 0.010; ACCURATE TO 3 DECIMAL PLACES.

С	LOAD	A: INNER (28)	A. INNER (35)	A. INNER (42)
5	3	3	3	4
10	4	3	3	4
20	12	4	5	5
25	16	5	5	5
30	20	5	5	5
35	24	5	5	6
40	29	6	6	7
45	33	6	6	7
50	37	6	6	7
60	46	6	7	7
70	56	7	8	8
80	65	- 7	8	9
90	74	7	8	9
100	84	8	9	10
125	107	8	9	10
150	131	9	10	11
160	141	9	11	12

Results of this study indicate that for low loads, the addition of multiplexers provides very little, if any, advantage in terms of reducing the number of channels necessary to provide acceptable blocking probabilities. The advantage increases dramatically as load increases. This is shown in Figure 6, where C and A represent the number of channels needed without and with multiplexers, respectively. Also, the level of speech activity does

have some impact on the number of channels required. However, the values of A for 35% speech activity are within ±1 channel of the values obtained for the lower (28%) and upper (42%) speech activity levels. This is shown in Figure 7, which gives a closer view of the bottom three lines from Figure 6. Figure 8 shows the use of regression analysis to interpolate the number of channels required for loads between those listed. The quadratic equation generated by the regression gives a model for predicting the value of A (on the Y axis) when the load (on the X axis) is known, given desired total blocking of no greater than 0.01 (accurate to within 3 decimal places) and speech activity of 35%. Note that since the information in Figures 6 through 8 is taken from Table 1, all three figures assume total desired blocking probabilities of .01. Once this is fixed, it fixes the value of C for every corresponding load, and vice versa. Therefore, the values given for A are dependent on the value of C as well as on the load, and C could be substituted for load on the X axis of the three graphs. The fact that load and C are dependent on each other allows us to use just the load to determine the value of A (number of channels needed for a multiplexed system) without doing the intermediate calculation to find the value of C (number of channels required for a non-multiplexed system), given, of course, that we know the desired total blocking probability and level of accuracy required.

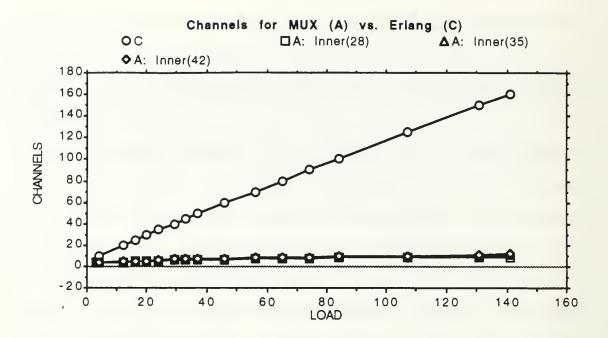


Figure 6. Channel Reduction in the Multiplexer Model

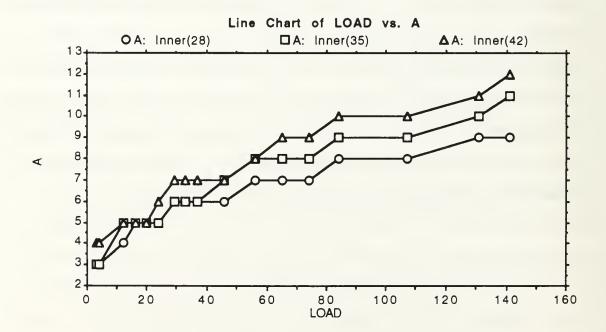


Figure 7. Channels Required for Various Speech Activity Levels; Mux Model

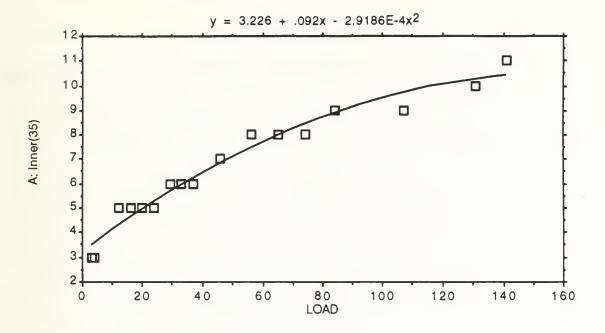


Figure 8. Regression on Channels (A) for Mux Model vs. Load (35% speech activity)

### VIII. CONCLUSIONS

In this study, we first developed stochastic models of a single-node telecommunications system both without and with the addition of an intelligent multiplexer (the bivariate Erlang and the Multiplexer models, respectively). The models were solved using matrix equations to compute the joint limiting probabilities for k callers and j talkspurts, as well as outer blocking and inner blocking probabilities (respectively the proportion of time the maximum allowed numbers of callers and talkspurts are in the system). Both GAMS (Appendices A and B) and APL (Appendix C) were used to do the computations for the purpose of validating the computer code.

Approximation routines (Appendix D) were then developed that were capable of performing the calculations much faster and for larger systems. Results from the multiplexer approximation were compared with the actual blocking probabilities computed from the matrix equations (Appendix E). A rule of thumb based on the size of approximate inner blocking probabilities was devised to determine the accuracy of both the approximate inner and outer blocking probabilities. Sensitivity analysis was also done to determine the effect of different levels of speech activity on the inner blocking probabilities (Appendix F). Given desired outer blocking and total blocking robabilities, as well as desired level of accuracy, it is possible to determine the number of channels (A) required to handle a particular traffic load in the multiplexer model, and compare this with the number of channels (C) required in the Erlang model. Analysis of the results from the tables in Appendix F indicate that addition of a multiplexer significantly reduces bandwidth requirements, particularly for heavy loading. The multiplexer advantage decreases to the point of insignificance as the load becomes very small (less than 3). The point at which the addition of multiplexers becomes advantageous depends on the cost of the adding multiplexers to a network vs. the cost of leasing the additional channels or bandwidth. These costs are affected by the number of nodes in a network, the geographical distances between nodes, and the loading along the links between nodes. A lightly loaded network with many nodes which are close together will benefit less than a heavily loaded system with long distances between relatively few nodes.

This study does not compare model results with data from actual systems. Nor was the multiplexer model developed to fit data from a real system. The Erlang loss formula has been found to have much practical use in designing voice telecommunications systems which do not utilize intelligent multiplexers. It is hoped that the methodology employed to adapt the bivariate Erlang model to reflect particular multiplexer characteristics will likewise prove useful in determining bandwidth requirements for systems which use intelligent multiplexers. Further study is recommended to validate the multiplexer model through comparison with data from a multiplexed voice system. Adjustments to the model may also be made to reflect different performance characteristics and input parameter values.

# APPENDIX A

The following GAMS program computes limiting probabilities for the bivariate Erlang system. Results shown are for a three-channel system with the following characteristics:

> Mean call length ( $\mu^{-1}$ ) of 3 minutes (180 seconds). Load ( $\lambda/\mu$ ) equal to 1. Mean talkspurt length ( $\beta^{-1}$ ) of 352 ms (.352 seconds) Mean length of silence ( $\alpha^{-1}$ ) of 650 ms. Speech activity of 35% ( $\alpha \div (\alpha + \beta) = 0.35$ ).

```
I -----GAHS AND DOLLAR CONTROL OPTIONS-----
                (SEE APPENDICE B & C)
  6 .
  7
 B PTIONS
      LIMCOL . 0 . LIMRON . 0 . SOLPRINT . OFF . DECIMALS . 6
 .
       RESLIM + 200. ITERLIM + 20000. CPTCR + 0.1 . SEED + 31414
 10
 11
12 .-----DEFINITIONS AND DATA----
 13
    SET
      C channels /0+5/1
14
15
1.6
     ALIAS (C.A).
27
    SCALARS
18
       elpha telkspurt arrivel rete in SEC(inverse) /1.53846/
1.9
20
        bate
              telxspurt deperture rate in SEC(inverse) /2.8409/
        lambda customer errivel rete in SEC(inversa) /.00555%/
21
       mu customer departure rate in SEC(inverse) /0.005556/
22
       totprob /1/
25
       B meximum number of chennels /3/s
2.6
25
POSITIVE VARIABLES
27
       P(C.A) limiting probability that system is in that stats
28
        ZP(C.A) Z-plus dummy variable
29
30
        ZH(C.A) z-minus dummy variables
31
    VARIABLE
32
3.2
       2
                objective function to be minimized:
54
    EQUATIONS
35
       OBJ dummy veriables
PROB(C.A) calculate limiting probabilities
34
37
       NULL(C,A) delete infeesible state epecae
18
3.9
        TOTL
                   observe upper bound on total probability:
40
41 + einimize
42
    08J..
       Z =E+ SUH((C.A)S(ORD(C) GE ORD(A)), ZP(C.A)+ZH(C.A));
43
44
45 • aublect to
4.6
    PROBIC.AIS(ORD(C) GE ORD(A) AND ORD(C) GT 1) ..
        ZP(C.A) - ZH(C.A) +E+
4.7
4.9
       -P(C.A)=
5.0
        (LAMBDAS(ORD(C) LE B) +
        ALPHA+(ORD(C)-ORD(A)) +
51
52
        BETAR(ORD(A)-1) +
        HU+(ORD(C)-1))+
53
54 .
55
        P(C,A-1)*ALPHA*(ORD(C)-ORD(A)*1)*
54 .
57
        PIC-A+1)+(BETA+ORD(A))+
58 +
59
        P(C+1,A)+(MU+(ORD(C)-ORD(A)+1))+
60 B
        P(C+1.A+1)+((HU+ORD(A))s(ORD(C) LE B))+
41
62 8
63
        P(C-1,A-1)+LAMBDA I
64
۰5
    NULL (C.A)S(ORD(C) LT ORD(A)).
6.6
       P(C.A) +E+ 0:
67
...
     TOTL ...
6.9
       SUM((C.A):(ORD(C) GE ORD(A)).P(C.A)) +E+ TOTPROB:
70
71
     HODEL P1 /ALL/I
12
73
     SOLVE PI USING LP HINIMIZING 21
74
```

77 DISPLAY Z.L. P.LI

	0	1	Z	2
С				
0	0.374992			
1	0.242957	0.13204++		
2	0.078704	0.085551	0.023248	
3	0.016997	0.027713	0.015042	0.002729

## APPENDIX B

The following GAMS program computes limiting probabilities for the multiplexer model system. Results shown are for a three-channel system with the following characteristics:

Maximum number of calls allowed equals 5. Mean call length ( $\mu^{-1}$ ) of 3 minutes (180 seconds). Load ( $\lambda/\mu$ ) equal to 1. Mean talkspurt length ( $\beta^{-1}$ ) of 352 ms (.352 seconds) Mean length of silence ( $\alpha^{-1}$ ) of 650 ms. Speech activity of 35% ( $\alpha$ +( $\alpha$ + $\beta$ )= 0.35).

```
5 -----GAMS AND DOLLAR CONTROL OPTIONS-----
                (SEE APPENDICE B & C)
 4 .
 5
 8 OPTIONS
      LINCOL + 0 , LINRON + 0 . SOUPRINT + OFF , DECIMALS + 6
 . 9
      RESLIM + 100. ITERLIM + 10000. OPTCR + 0.1 . SEED + 5141:
10
11
12 P------DEFINITIONS AND DATA-----
    SET
15
14
      C cellers /0+5/
       A telesourts /0=5/1
15
1.6
1.7
     SCALARS
       signs talkspurt errivel rate in SEC(inverse) /1.53846/
18
1.9
       betem talkspurt deperture rate in SEC(inversa) /6.993/
              service rete /3/
20
        .
21
        lembde customer errivel rete in SEC(inverse) /.005556/
               customer deperture rete in SEC(inverse) /0.005556/
22
        .....
        totprob /1/
2.5
2.4
       ж
             neximum number of calls /5/
              meximum number of ective cells /3/s
25
        1
26
27 •----- MODEL-----
    POSITIVE VARIABLES
28
       P(C.A) limiting probability that system is in that state
29
        ZP(C.A) z-plus dumay variable
10
31
        2H(C.A) z-minus dummy veriables
52
    VARIABLE
5.5
54
       Z
                 objective function to be minimizeds
35
    EQUATIONS
54
37
       LEO
                    dummy variables
       PROB(C.A) celculets limiting probabilities
38
        NULL(C.A) delete infaceible ateta apacas
39
        TOTL
40
                    observe upper bound on total probebility:
41
42 · minimize
45
    08J..
        Z +E+ SUHL(C.A)S(ORD(C) GE ORD(A)1. 2P(C.A)+2H(C.A)):
44
45
4.6
   = aubjact to
    PROBIC.A SECONDICS GE ORDIAS AND ORDICS GT 1) ..
47
        ZP(C.A) - ZH(C.A) +E+
48
49 =
        -P(C.A)=
50
        (LANBDAS(CRD(C) LE K) +
51
52
        ALPHA+(ORD(C)-ORD(A))$(ORD(A) LE J)+
        BETAM+(ORD(A)-1)+S +
55
                                   .
54
        HU+(ORD(C)-1))+
55 *
5.6
        P(C.A-1)+ALPHA+(ORD(C)-ORD(A)+1)+
57 .
58
        P(C.A+1)+(BETAM+ORD(A)+S)+
59 .
        P(C+1.A)+(HU=(ORD(C)-ORD(A)+1))+
۰٥
61 .
        P(C+1,A+1)+((HU+ORD(A))$(ORD(C) LE K))+
62
63 ÷
        P(C-1,A-1)+LAHBDA :
44
٥5
    NULL(C.A)S(CAD(C) LT ORD(A))..
6.6
        P(C.A) +E+ 0;
67
68
    TOTL..
4.9
70
        SUM((C.A)$(ORD(C) GE ORD(A)).P(C.A)) +E+ TOTPROBI
7.1
    MODEL MUX /ALL/1
72
75
    SOLVE HUX USING UP HINIHIZING Z:
74
```

75	REPORTS-	
76	Perint the optimel objective	value end solution.

77 DISPLAY Z.L. P.L :

	A	0	1	2	- 5
С					
0		0,368157			
1		0.342869	0.025235		
2		0.159646	0.021502	0.000865	
3		0.049549	0.010945	405000.0	0.000020
4		0.011536	0.003396	0 000375	0.00018
5		0.002147	0.000790	0,000116	

# APPENDIX C

The following program may be used to solve limiting probabilities for the bivariate Erlang model by setting "COMPRESS" equal to 1, "RO" equal to B and "HEADER" equal to 0.

```
MATRIXM CD
     A MATRIX FOR ADAPTIVE MULTIPLEXER
[1]
[2]
     □IO+1
[3] A THIS PROGRAM USES MATRIX INVERSION TO COMPUTE
LIMITING
[4] A PROBABILITIES FOR THE MULTIPLEXER MODEL.
[5] A IT REQUIRES A VECTOR INPUT OF 8 ELEMENTS.
[6] A LAM IS THE CALL INITIATION RATE.
[7] A MU IS THE CALL TERMINATION RATE.
[8] A ALPHA IS THE TALKSPURT INITIATION RATE.
[9] A BETA IS THE TALSPURT TERMINATION RATE.
[10] A A IS MAX NUMBER OF ACTIVE CALLS
[11] A C IS MAX NUMBER OF CALLS IN PROGRESS
[12] A COMPRESS IS THE COMPRESSION RATE
[13] A FOR PACKETIZED TALKSPURTS.
[14] A HEADER IS THE PROPORTION OF HEADER INFO
[15] A TO MEAN TALKSPURT LENGTH.
[16] A B IS THE INCOMING RATE IN BITS/SEC.
[17] LAM+CD[1]
[18] MU+CD[2]
[19] ALPHA+CD[3]
[20] BETA+CD[4]
[21] A+CD[5]
[22] C+CD[6]
[23] COMPRESS+CD[7]
[24] HEADER+CD[8]
[25] B+32000
[26] A RO IS THE RATIO OF THE INPUT TO OUTPUT
[27] A TRANSMISSION RATES x B.
[28] RO+AxB
[29] SIZE (+/1(A+1))
[30] SIZE \leftarrow SIZE + ((C-A) \times (A+1))
[31] M+(SIZE,SIZE) ρ0
[32] A PROCESSOR SHARING SERVICE
[33] A BETAM IS THE TALKSPURT TERMINATION RATE AFTER
[34] A ACCOUNTING FOR COMPRESSION AND HEADER.
[35] INVBETAM+((1+COMPRESS)+HEADER)×B×INVBETA+1+BETA
[36] BETAM+1÷INVBETAM
[37] SERV+BETAM×RO
```

```
[38] M[1;1]+0
[39] M[1;3]+LAM
[40] CC+0
[41] FINISH+1
[42] ITER:
[43] START+FINISH+1
[44] CC←CC+1
[45] LEV+CC
[46] \rightarrow REACHAX1(LEV=A)
[47] →LARGAX1(LEV)A)
[48] NUMB+LEV+1
[49] FINISH+START+(NUMB-1)
[50] ML \leftarrow ((LEV+1), LEV) \ge 0
[51] MM←((LEV+1),(LEV+1))ρ0
[52] MR+((LEU+1),(LEU+2))p0
[53] →NEXTMA
[54] A NUMB OF CALLS IN PROGRESS = MAX NUMB OF ACTIVE CALLS
A,
[55] REACHA:
[56] NUMB+A+1
[57] FINISH←START+(NUMB-1)
[58] MR \leftarrow MM \leftarrow ((A+1), (A+1)) \ge 0
[59] ML+((A+1),A)p0
[60] →NEXTMA
[61] A NUMB OF CALLS IN PROG > MAX NUMB OF ACTIVE CALLS
[62] LARGA:
[63] NUMB+A+1
[64] FINISH\leftarrowSTART+(NUMB-1)
[65] MR \leftarrow MM \leftarrow ML \leftarrow ((A+1), (A+1)) \rho 0
[66] NEXTMA:
[67] CC1+0
[68] INNERR:
[69] \rightarrow OUTR \times i (CC1 = (LEV+1))
[70] CC1←CC1+1
[71] \rightarrow INNERR1 \times 1 (CC1 = (LEV+1))
[72] ML[CC1;CC1] ← (LEV-(CC1-1)) × MU
[73] INNERR1:
[74] → INNERR2×1 (CC1=1)
[75] ML[CC1;(CC1−1)]+(CC1−1)×MU
[76] INNERR2:
[77] → INNERR×1 (CC1< (pML) [1])
[78] OUTR:
[79] CM+0
[80] INNERM:
[81] \rightarrowOUTM×1(CM>A+1)
[82] CM+CM+1
```

```
[83] \rightarrow \text{MEXTM1} \times 1 (\text{CM} = (\rho \text{MM}) [1])
[84] MMECM; CM+1] \leftarrow (LEV-(CM-1)) \times ALPHA
[85] NEXTM1:
[86] →NEXTM×1(CM=1)
[87] MMECM;CM-1]←SERUx(CM-1)
[88] NEXTM:
[89] \rightarrow INNERM \times i (CM < (\rho MM)[1])
[90] OUTM:
[91] CL+0
[92] INNERL:
[93] \rightarrow OUTLxi(CL2A)
[94] CL+CL+1
[95] MR[CL;(CL+1)] \leftarrow LAM
[96] →INNERL×1(CL<(\rhoML)[1])
[97] OUTL:
[98] START1+START-1
[99] →CEQAxi(LEV=A)
[100] →CBIGAX1(LEV)A)
[101] MESTART1+(1NUMB);(START1+(1NUMB))]+MM
[102] MESTART1+(1NUMB);(START-NUMB)+1(NUMB-1)]+ML
[103] \rightarrow END \times i(CC=C)
[104] MESTART1+(1NUMB);(START1+NUMB+(1NUMB+1))]+MR
[105] \rightarrow ITER \times 1 (CC < C)
[106]CEQA:
[107] MESTART1+(1NUMB);(START1+(1NUMB))]+MM
[108] MESTART1+(1NUMB);(START-NUMB)+1(NUMB-1)]+ML
[109] →ENDx1(CC=C)
[110] MESTART1+(1NUMB);(START1+NUMB+(1NUMB))]+MR
[111] \rightarrow ITER \times 1 (CC \langle C \rangle)
[112]CBIGA:
[113] MESTART1+(1NUMB);(START1+(1NUMB))] + MM
[114] MESTART1+(1NUMB);(START1-NUMB)+1NUMB]+ML
[115] → END×1 (CC=C)
[116] M[START1+(1NUMB);(START1+NUMB+(1NUMB))]+MR
[117] \rightarrow ITER \times 1 (CC < C)
[118]END:
[119] IDENT\leftarrow(1SIZE) • = (1SIZE)
[120] IDENT+IDENT×((SIZE,SIZE) p(+/M))
[121] MI+M+M-IDENT
[122] M[;1]+1
[123] LHS+(1,SIZE) ρ(1,((SIZE-1)ρ0))
[124] PIA+LHS+.x(EM)
[125] MATRIX+Q(3,(PIA))PSC,SA,(,PIA)
```

```
50
```

# APPENDIX D

The APL program APPROX calculates the limiting probabilities for both the Erlang and multiplexer models using approximation techniques. It calls the routine STATES to help format the output. BLOCK is used to compute the inner, outer, and combined innerouter blocking probabilities for both the approximation (APPROX) and the actual (MATRIXM) calculations for comparison.

MAPPROX CMM [1]  $\Box I0 + 1$ A THIS PROGRAM REQUIRES A VECTOR OF 8 ELEMENTS AS [2] INPUT. F31 A IT CALCULATES THE LIMITING PROBABILITIES FOR THE MULTIPLEXER [4] A AND ERLANG MODELS USING MATRIX INVERSION. [5] A L IS LAMEDA, THE CALL INITIATION RATE. [6] A M IS MU, THE CALL TERMINATION RATE. [7] A ALPHA IS THE TALKSPURT INITIATION RATE. [8] A BETA IS THE TALKSPURT TERMINATION RATE. [9] A A IS THE NUMBER OF CHANNELS. [10] A C IS THE MAXIMUM NUMBER OF CALLS ALLOWED. [11] A COMPRESS IS THE COMPRESSION RATE OF PACKETIZED TALKSPURTS. [12] A HEADER IS THE PROPORTION OF HEADER INFORMATION TO [13] A MEAN LENGTH OF TALKSPURT. [14] A B IS THE INCOMING RATE IN BITS/SEC. E15] L←CMME1] [16] M+CMM[2] [17] ALPHA+CMM[3] [18] BETA+CMM[4] [19] A+CMM[5] [20] C+CMM[6] [21] COMPRESS+CMM[7] [22] HEADER+CMM[8] [23] B+32000 [24] R0+AxB [25] A CALCULATION FOR BINOMIAL PROB. OF J TALKSPURTS GIVEN K CHANNELS [26] A FOR ERLANG [27] BIO+0 [28] ADIM+(A+1),(A+1) [29] APRA+DIMp0 [30] AA1+ALPHA+ALPHA+BETA [31] AA2+BETA+ALPHA+BETA

```
[32] AK+0
[33] AJ+1A+1
[34] AINLP:PRAEK;J]+(J!K)×(A1*J)×(A2*(K-J))
[35] AK+K+1
[36] A→(KKA)/INLP
[37] A FOR MUX
[38] A INVEETAM IS THE NEW TALKSPURT LENGTH IN BITS
[39] A AFTER COMPRESSION AND HEADER ARE CONSIDERED.
[38] INVBETAM+((1÷COMPRESS)+HEADER)xBxINVBETA+1+BETA
E391 BETAM€(1÷INVBETAM)
[40] SERV+BETAMxR0
[41] DIMM+(C+1),(A+1)
[42] PRAM+DIMMp0
[43] K+0
[44] J+1A+1
E451 INLPM:PRAMEK(J1+(J!K)×((ALPHA+SERU)*J)
[46] K+K+1
[47] \rightarrow (K \leq C) \times INLPM
[48] PO+((A+1),(C+1))p1+(+/PRAM)
[49] PRAM+6POx6PRAM
[50] A TRUNCATED POISSON PROBABILITY OF K CALLERS
[51] A GIVEN MAX J CHANNELS
[52] A FOR ERLANG (MAX CHANNELS = MAX CALLERS = A)
[53] LOAD+L+M
[54] AK+1A+1
[55] APRC+(LOAD≭K)÷!K
[56] APRCE \leftarrow PRC \leftarrow (+/PRC)
[57] AALPE+PRAxtDIMpPRCE
[58] AAPOUTBLE++/ALPE[A;]
[59] A FOR MUX (MAX CHANNELS = A, MAX CALLERS = C)
[60] AK+(1C-A)+A+1
[61] APIO←PRC,(LOAD#K)÷!K
[62] K+iC+1
[63] PI02+(C+1)p1
[64] I+0
[65] MKPI0:X+1
[66] MKPI02:PI02[]+(L0AD+X)×PI02[]]
[67] X<del>4</del>X+1
E681 → (X3KEI1) / MKPI02
[69] I+I+1
[70] \rightarrow (I \le C) \times MKPIO
[71] APRCM+PIO++/PIO
[72] PROME+PIO2++/PIO2
[73] DIMM2+(A+1),(C+1)
[74] HALPM+PRAMXbDIMM2pPRCM
[75] A FORM MATRIX OUTPUT
```

```
52
```

```
[76] ASTATES(A,C)
[77] AALPE+(,ALPE>0)/,ALPE
[78] AALPM+(,ALPM>0)/,ALPM
[79] AALPE+ALPE,((pSA)-(pALPE))p0A
[80] AALPM (PALPM, (PSA) - (PALPM)) p0
[81] AMATRIXAP+b(4,(pSA))pSC,SA,(ALPE).(ALPM)
[82] 0I0÷1
     \overline{\nabla}
   STATES CM
[1] A THIS FUNCTION RETURNS 2 VECTORS WHICH,
[2] A TOGETHER, GIVE THE STATES IN TERMS OF
[3] A NUMBER OF CALLS AND ACTIVE CALLS (C,A)
[4] []IO+1
[5] A+CM[1]
[6] C+CM[2]
[7] VV+0,iA
[8] SA+i0
[9] SC+10
[10] SA+SA,0
[11] SC+SC,0
[12] LEV+0
[13] ITERS:
[14] LEV+LEV+1
[15] SA \in SA, (VUE: (LEU+1)])
[16] SC \in SC, ((LEV+1) pLEV)
[17] →ITERSx1(LEV(A))
[18] \rightarrow END \times i (A=C)
[19] ITERB:
[20] LEV+LEV+1
[21] SA+SA,UU
[22] SC \leftarrow SC, ((\rho UU) \rho LEU)
[23] →ITERBX1(LEV(C)
[24] END:
      \bigtriangledown
      PBLOCK CM
[1]
     APPROX CM
[2] MATRIXM CM
[3]
     INBL++/(SA=A)/,PIA
[4] OUTBL++/(SC=C)/,PIA
[5] INOUTBL+INBL+OUTBL-T11,PIA
[6]
     INBLA++/(SA=A)/ALPM
[7]
     OUTELA++/(SC=C)/ALPM
[8]
     INOUTELA€INELA+OUTELA-T1↑ALPM
[9]
      MATRIX2+q(4,(p,PIA))pSC,SA,(ALFM),(,PIA)
```

```
\bigtriangledown
```

## APPENDIX E

These tables compare actual outer and inner blocking probabilities (OUTBL, INBL) with their approximated counterparts (OUTBLA, INBLA). Results are shown for C (maximum number of calls allowed) equal to 5, 10, 15, 20, and 30. The values for A indicate the number of available channels.

The level of speech activity (average proportion of time a call of infinite duration is active) is assumed to be 35% for all runs. The mean length of a call is 3 minutes. The mean length of a talkspurt ( $\beta^{-1}$ ) is 352 ms. The compression factor is 4-to-1 and the length of the header information is 15.625% of the mean length of a talkspurt. The rate of each active incoming channel is b = 32 Kbps. Thus, the value of ( $\beta^{-1}$ )\* is 4576 bits. The outgoing channel rate s is equal to A, the number of available channels, multiplied by b, the incoming channel rate. The values for load ( $\lambda/\mu$ ) are as indicated in the tables.

C • 5	A + 1				C = 10	A + 4			
LOAD		OUTSLA	INSL	INSLA	LOAD	OUTBL	OUTBLA	INDL	INBLA
1.0	.000600	.0030+7	.139541	.155796	1.0	. 000000	.000000	.000000	.000000
2.0	.008525	.036697	.228909	.268848	2.0	. 000038	.000038	.000004	.000004
3.0	.051201	.110054	.291287	.344872	3.0	.000809	.000610	.000021	.000021
4.0	.0.7800	.199067	.334446	. 3 9 3 5 3 3	4.0	.005300	.005308	.000059	.000058
					5.0	.018359	.018385	.000122	.000120
C • 5	A + 2				6.0	.043085	.043142	.000203	.000200
LOAD	OUTBL	OUTBLA	INBL	INSLA	7.0	.078445	.078741	.000291	.000288
1.0	.002817	001067	.004368	. 004 396	8 0	.121526	.121661	.000378	.000374
2.0	.033933	.356697	.014415	.014638	9.0	.167793	.167963	.00,0458	200453
2.0	.102903	.110054	.025236	.025672 .034802	C + 10	A = 5			
4.0				.034802	LOAD	OUTBL	OUTBLA	INBL	INBLA
C + 5	A + 3				1.0	.000000	.000000	.000000	. 300000
LOAD	OUTBL	OUTBLA	INBL	INBLA	2.0	.000058	.000038	.000000	.000000
1.0	.003063	.003067	. 200247	.000046	3.0	.000810	.000810	.000000	.000000
2.0	.030645	.030097	. 000272	.000269	4.0	.005307	.005308	.000001	.000001
3.0	.109912	.110054	.000606	.000601	5.0	.018384	.018385	.000002	. 0 0 0 0 0 2
4.0	.198840	.199067	. 00 09 35	.000926	6.0	.043141	.043142	. 0 0 0 0 0 3	.00003
					7.0	.078739	.078741	.000005	.000005
C • 5	A + 4				8.0	.121659	.121661	.000007	.000007
LOAD	CUTBL	OUTBLA	INBL	INSLA	9.0	.167960	.167963	.000039	.000009
1.0	.003067	.0030+7	. 000000	.000000					
2.0	.036697	036697	.000002	.000002	C • 15	A + 1			
5.0	.110054	.110054	.000005	. 200005	LOAD	OUTBL	DUTBLA	INBL	INBLA
4.0	.199366	.199067	.000009	.000009	5.0	.000000	.00157	.382516	.476189
5.0	.284866	.234868	.000012	.000312	6.0	. 000000	.000892	.415014	.544033
C = 5	A + 5				7.0	.0000000	.009101	.442467	.583626 .616453
LOAD	OUTBL	OUTBLA	INBL	INBLA	9.0	.000001	.019868	.486723	
1.0	.003067	.003067	.000000	.000000	10.0	. 000003	.036497	.504960	. 6 6 5 5 2 7
2.0	.036697	.036697	.000000	.000000	11.0	.000008	.058797	.521245	. 6832-4
3.0	.110054	.110054	.000000	.000000	12.0	.000018	.085729	.535910	. 697359
4.0	.199067	.1990+7	. 200000	.000000	13.0	. 00 00 3 7	.115865	.549215	.708549
C + 10	A + 1				C + 15	A + 2			
LOAD	OUTBL	OUTBLA	INBL	INBLA	LDAD	OUTBL	OUTBLA	INBL	INBLA
1.0	.000000		.139563	.156043	5.0	.000019	.000157	.068656	.076777
2.0	. 0 0 0 0 0 0	.000038	.229440	.274026	6.0	.000116	.000892	.088285	.101180
2 . 0	.000002	.000810	.293849	.365335	7.0	.000475	.003319	.107725	.126049
4.0	.000022	.005308	.343124	.437013	8.0	.001456	.009101	.126016	.150441
5.0	.000106	.018385	.382511	. 493130	9.0	.003596	.019868	.144696	.173-31
6.0	.000361	.043142	.414993	.536284	10.0	.007514	.036497	.161762	.194273
7.0	.000952	.078741	.442406	.568775	11.0	.013778	.058797	.177653	.212531
8.0 9.0	.002097	.121661	.465946	. 592908	12.0	.022766	.085729	.192256	.228107
9.0		.18/783	.486426	.610788	13.0	.034801	.115865	.205512	.241158
C + 10	A + 2				C = 15	A = 3			
LDAO	OUTBL	OUTBLA	INBL	INBLA	LOAD	OUTBL	OUTBLA	INBL	INBLA
1.0	.000000	.000000	.004417	.004454	5.0	.000124	.000157	.004685	.004725
2.0	.000018	.000038	.015691	.016187	6.0	.000707	.000892	.007487	.007605
2.0	. 000390	.000810	.031280	.033097	7.0	.002654	.003319	.010934	.011183
4.0	.002+51	. 005 308	.049188	. 05 3 2 3 1	8.0	.007362	.009101	.014887	.015308
5.0	.009672	.018385	.067782	.074441	9.0	.016292	. 219868	.019:32	.019737
6.0	.024096	.043142	.085720	.094647	10.0	.030580	.036497	-023430	.024196
7.0	.046763	. 378741	.102057	.112434	11.0	.049703	.058797	. 027567	.028446
8.0	.07+569	.121661	-116316	.127276	12.0	.073562	.085729	.031592	.032330
9.0	.111561	.167963	.128415	.139294	13.0	.106820	.115865	.034826	.0:5773
C + 10					C				
LOAD	A + 3 OUT8L	OUTBLA	16491	1 k (The s	C + 15 LOAD	A • 4 OUT9L	OUTBLA	INBL	INBLA
1.0	200000	.0000000	1N8L .000050	1HBLA .000050	5.0	.000155	.000157	1NBL .000149	1NBCA
2.0	.000036	.000038	.000373	.000050	6.0	.000879	.000892	.000291	.000288
3.0	.000773	.000810	.000373	.000371	7.0	.003273	.003319	.000499	.000495
4.0	.0050+8	.005308	.002505	.002503	8.0	.008 981	.009101	.000775	.000767
5 0	.017+01	.018385	.004306	.004312	9.0	.019621	.019848	.001103	.001093
6.0	.041446	.043142	.006346	.006362	10.0	.036070	.036497	.001462	.001449
7.0	.075931	.078741	.008187	.008408	11.0	.058159	. 058797	.001828	.001812
8.0	.117754	.121661	.010262	.010282	12.0	.084872	.085729	.002182	.002143
9.0	.1+3122	.167963	.011900	.011913	13.0	.114800	.1158+5	.002509	.002487

C = 15	A = 5					C = 20	A = 6			
LOAD	OUTBL	OUTBLA	INBL	INBLA		LOAD	OUTBL	OUTBLA	INBL	INDLA
5.0	.000157	.000157	.000003	. 000003		10.0	.001869	.001869	.000002	.000002
6 0	.000391	.000892	.000007	.000006		11.0	.004640	.004640	. 000003	.000003
7.0	.003317	.003319	.000013	. 000013		12.0	.009795	.009796	.000004	.000004
8 D	.009097	.009101	. 0 0 0 0 2 3	.000022		13.0	.018108	.018110	.000006	.000006
90	.019860	.019868	.000035	.000034		14.0	. 0 2 0 0 2 2	.030035	.000008	.00000.
10 0	.036-82	.036497	.000049	.000049		15.0	.045589	.045593	.000011	.000010
11.0	.058774	. 058797	.000065	.000064		16.0	.064406	.0.4411	.000013	.000013
12.0	.085+98	.085729	.000081	.000079		17.0	.085854	.085860	.000015	.000015
12 0	.11582+	.115865	.000095	.000094		18.0	.109205	.139215	.000017	.000017
C + 20	A + 1					C + 30	A + 1			
_ O 4 O	OUTBL	OUTBLA	INBL	INSLA		LOAD	OUTBL	OJTBLA	1886	INBLA
10.0	.000000	.001869	.504960	71518		10 0	. 000000	.0)0000	.50-960	. 671565
11.0	.060000	.004640	.521245	.692619		20.0	.0000000	.008457	.617259	.807340
12.0	.000000	.009796	.535911	.710936		20.0	.000000	.132460	. 674998	.849465
13.0	.003000	.018110	.549217	.726588						
14.0	.000000	.030035	.561365	.7598-0		C + 20	A + 2			
15.0	.000000	.045593	.572518	.750952		LOAD	OUTBL	OUTBLA	INAL	INBLA
16.0 17.0	.000000	.064411	.582809	.760194		15.0 16.0	.000000	.000221	.239302	-316978
18.0	.000000	.085860	.592346	.767834 .774134		10.0	.000000	.000564 .001281	.252495	.337216
10.4						18.0	.000000	.002622	.265068	. 55 • 48 9 . 37 4 7 4 5
C • 20	A = 2					19.0	.000001	.004902	.288505	. 374743
LOAD	OUTBL	OUTBLA	INDL	INSLA		20.0	. 00 0 0 0 3	.008457	.299441	. 407918
10.0	.000041	.001869	.162731	.202251		21.0	.000005	.013594	. 509900	.422690
11.0	.000122	.004640	.179552	.226056		22.0	.000011	. 02 05 35	.319911	.436175
12.0	.000307	.009796	.195578	.248492		23.0	. 000022	.029386	.329505	.448352
13.0	.000+87	.018110	.210814	.269187		24.0	.000040	.040121	.338705	.459238
14.0	.001383	. 03 00 35	.225270	.287860		25.0	.000070	. 052603	.347537	.4.8885
15.0	. 002552	.045593	. 2 38 95 7	. 304366		26.0	.000119	.066612	.356022	.477375
16.0	.004371	.064411	.251880	.318709		27.0	.000194	.081880	.364180	.484809
17.0	.007017	.085860	.264043	.331011		28.0	.000307	.098122	.372028	. 491296
18.0	.010655	.109215	.275449	.341472		29.0	.000471	.115065	.379582	. 4 9 6 9 4 8
C + 20	A = 3					C = 30	A + 3			
LOAD	OUTBL	OUTBLA	INBL	INBLA		LOAD	OUTBL	OUTBLA	INBL	INBLA
10.0	.001019	.001869	.025455	.026948		15.0	.000024	.000221	.058605	.066333
11.0	.002598	.004640	.031223	.022226		16.0	.000066	.100564	.065968	.075567
12.0	.005655	.009796	.037253	.040022	•	17.0	.000161	.601281	.073451	.085073
13.0	.010813	.018110	.043376	.046764		18.0	.000354	.002622	.081003	.094737
14.0	.018579	.030035	.049423	. 053321		19.0	.000719	.004902	.088577	.104422
15.0 16.0	.029229	.045593	.055238	. 05 94 9 7		20.0	.001352	.008457	.096125	.113980
10.0	.042758	.064411 .085860	.060703	.065160 .070243		22.0	.003942	.013594	.103599	.132106
18.0	.077278	.109213	.070304	.074738		23.0	.006193	.029386	.118123	.140417
10.0						24.0	.009278	.040121	.125073	.148106
C • 20	A = 4					25.0	.013321	.052603	.131753	.155129
LOAD	OUTBL	OUTBLA	INBL	INBLA		26.0	.018412	.066612	.138123	.161476
10.0	.001767	.001869	.001807	.001800		27.0	.024603	.081880	.144154	.167165
11.0	. 004 3 94	.004640	.002464	.002458		28.0	.031901	.098122	.149823	.172234
12.0	.009299	.009796	.003216	.003212		29.0	.040272	.115065	.155118	.176733
13.0	.017239	.018110	.004036	. 004034						
14.0	.028677	.020035	.004888	.004887		C = 30	A = 4			
15.0	.043667	.045593	.005736	.005735		LOAD	OUTAL	OUTBLA	INBL	INBLA
16.0	.061882	.064411	.006552	.006549		15.0	.000157	.000221	.007025	.007137
17 0	.082738	.085860	.007316	.007509		16.0	.000404	.000564	.008581	.008760
18.0	.105538	.109213	.008017	.008004		17.0	.000926	.001281	.010306	.0105+8
						18.0	.001916	.002622	.012184	.012543
C + 20	A + 5	0117 01 1	11.01			19.0	.003626 .006340	.004902	.014190	.014657
LOAD 10.0	.001863	OUTBLA	1N8L .000071	1 NBL A		20.0	.010336	.013594	.018447	.019130
11.0	.001863	.004640	.000106	.000105		22.0	.015848	.020535	.020616	.021390
12.0	.009768	.009796	.000150	.000148		23.0	. 02 30 25	. 02 9 3 8 6	. 0 2 2 7 5 5	.023600
13.0	.018061	.018110	.000201	.000198		24.0	.031915	.040121	.024828	.025719
14.0	.029958	. 0 3 0 0 3 5	.000256	.000252		25.0	.042465	.052603	.026804	.027718
15.0	.045483	.045593	.000313	.000308		26.0	.054539	.066612	.028661	.029577
16.0	.064265	.064411	.000370	.000365		27.0	.067940	. 081880	.010388	.051285
17.0	.025678	.085860	.000425	.000419		28.0	.082440	.098122	.031979	.032842
18.0	.108997	.109213	.000476	.000470		29.0	. 097799	.115065	.033433	.034252

C + 30	A + 5			
LOAD	OUTBL	OUTBLA	INBL	INDLA
15.0	.000214	.000221	.000451	.000446
16.0	.000547	.000564	.000594	.000588
17.0	.001241	.001281	.000766	.000758
18.0	.002544	.002622	.000965	.000955
19.0	.004760	.004902	.001191	.001180
20.0	.008222	008457	.001439	001426
21.0	.013231	-013594	.001705	.001690
22.0	.020313	020535	.001981	0019+4
23.0	.018077	.029186	.0022+0	.002242
24.0	.059206	.040121	.002537	.002516
25.0	.051474	.052603	.002805	.002782
26.0	.065268	.0.0012	001061	.003035
27 0	. 08 0 5 2 9	.081380	.001102	.001273
28.0	. 396377	.098122	.003525	.003493
29 0	.113:44	115065	203712	003697
C • 30	A + 6			
LOAD	OUTBL	OUTBLA	INBL	INBLA
15.0	.000221	.000221	.000018	.000018
16.0	.0005+3	. 300564	.000026	.000026
17.0	.001278	.001281	.000016	.000035
18.0	.002617	.002622	.000348	.000047
19.0	.004893	.004902	.000062	.0000+1
20.0	.008443	.008457	.000078	.060077
21.0	.013571	.013594	.000096	.000094
22.0	.020502	.020535	.000115	. 300113
22.0	.029340	.029586	.000135	.000133
24.0	.040062	.040121	.000156	.000153
25.0	.052530	.052603	.000176	.000173
26.0	.06+525	.066612	.000196	.000192
27.0	.081778	.081880	.000214	.000211
28.0	.098007	.098122	.000232	.000228
29.0	.114938	.1150.5	.000249	.000244
C + 33	A + 7	0	1	
15.0	OUT8L .000221	OUTBLA	INBL	INBLA .000001
16.0	.000544	.000221	.000001	.000001
17.0	.001281	.001281	.000001	.003001
18.0	.002622	.002622	.000002	.000002
19.0	.004902	.004902	.000002	.000002
20.0	.003457	.068457	.000002	. 300003
21.0	.013593	.013594	.000004	.000004
22.0	.020534	.020535	.000005	.000004
23.0	. 029384	.029386	.000005	.000005
24.0	.040118	.040121	.000006	.000006
25.0	.052600	.052603	. 000007	.000007
26.0	.066609	.066612	.000008	.000008
27.0	.081875	. 381880	.000009	.000009
28.0	.098117	.098122	.000010	.000010
29.0	.115060	.1150+5	.000011	.000011

#### APPENDIX F

The following tables show results of the approximation to the multiplexer model when C (maximum number of calls allowed) equals 5, 10, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125, 150, and 160. The values for A indicate the number of available channels.

Outer blocking probabilities are calculated from the formula for the truncated Poisson distribution (2). Inner blocking probabilities (equal to  $P_J(k)$ , from (6), where J = A) are compared for three different levels (28%, 35%, and 42%) of speech activity (average proportion of time a call of infinite duration is active). Mean talkspurt lengths ( $\beta^{-1}$ ) are assumed to be 288 ms, 352 ms, and 420 ms, respectively, for the three levels of speech activity. The compression factor is 4-to-1 and the length of the header information is 15.625% of the mean length of a talkspurt. The rate of each active incoming channel is b = 32 Kbps. Thus, the values for ( $\beta^{-1}$ )\* are 3744, 4576, and 5460 bits, respectively, for the three levels of speech activity.

The mean length of a call is 3 minutes. The outgoing channel rate s is equal to A, the number of available channels, multiplied by b, the channel rate. The values for load  $(\lambda/\mu)$  are as indicated in the tables.

BLOCKING	PROBABL	LITIES FOR	C + 5 A -	• 1
LOAD	OUTER	INNER(28)	DHER (35)	INNER (42)
1.0	.003067	.121505	-155794	.190727
2.0	.032258		.236326	. 28 3025
2.0	.0992+5	.251962	.311061	. 5 6 7 0 7 9
4 O	.184047	. 3008 67	- 367794	. 429927
RL OCX LMG	PROBABL	ITIES FOR		2
				-
LCAD	OUTER	INNER(28)	INNER (35)	11-44ER (42)
1.0	.003067	.002460	.004336	.007169
2.0	.032258			. 020597
5.0	.099265	.013315		.03+636
4.0	.186047	.018826	.032526	. 051083
BLOCKING	PROBABIL	ITLES FOR	C + 5 A +	2
LOAD		INNER(28)		
1.0	.003067	.000018		.000102
2.0	.032258	.000095		.000515
5.0 1				.001173
4.0	.136047	.000351	.000866	.001848
		ITIES FOR		•
LOAD			INNER(35)	INNER(42)
1.0	.003067	. 000000		.000001
2.0	.032258	. 000000	. 300002	.000005
3.0	.099265	.000001	.000005	.000014
4.0	.186047	.000002		.000024
BLOCKING	PROBABIL	ITIES FOR	C = 5 A +	s
LOAD	OUTER	INNER (28)	INNER (35)	INNER(42)
1.0	.003067	. 000000	.000000	.000000
2.0	.032258	.000000	.000000	.000000
2.0	.099265	.000000	.000000	.000000
4.0	.186047	.00000	.000000	.000000
BL OCY IL		ITIES FOR (		
			- • 10 A •	
LOAD				1100 (42)
				11000 11023
	.000000	.000020		.000109
	.000034	. 000155		.000700
3.0	.000737	.000438		.002217
	. 005030	.001000		.004896
5.0	.017896	.001791	.004197	.008540
6.0	.042590	.002706	.006281	.012637
7.0	.078246	.003627	.008357	.016671
8.0	.121312	.004475	.010253	.020319
BLOCK1NG	PROBABIL	ITIES FOR C	+ 10 A +	4
LOAO			INNER (35)	
	.000000	. 000000		. 000001
	. 000034	.000001		.000011
2.0	.000737	.000006		

4.0	.005030	.000016	. 000055	.000156
5.0	.017896	. 000035	.000117	.000326
6.0	.042590	.000040	.000197	.000546
7.0	.078266	.000087	.000286	.000787
8.0	.121312	.000113	.000373	.001022
BLOCKING	PROBABIL	ITIES FOR	C = 10 A	• 5
LOAD	OUTER	IHHER(28)	INNER (35)	(NANER (42)
1.0	.000000	.000000	.000000	.000000
2.0	.000034	. 000000	. 000000	.000000
5 0	. 0 0 0 7 3 7	. 330300	.000033	.000001
4.0	.005030	.000000	1000001	.000003
5.0	.017896	.000000	.000002	.000607
6.0	.042590	100000.	. 000003	.000013
7.0	.078266	.000001	.000005	.000020
8.0	.121312	.000002	.000007	.000027
BLOCKING	PROBABIL	ITIES FOR O	- 10 A	+ 6
LOAO	OUTER	INNER (28)	1HHER (35)	1H04ER (42)
1.0	.000000	.000000	.000000	
2.0	.000034	.000000	.000000	.000000
5.0	.000737	.000000		.000000
4.0	.005030	.000000	.000000	.000000
5.0	.017896	.000000	.000000	.000000
6.0	.042590	.000000	.000000	.000000
7.0	378266	.000000	.000000	. 300000
8.0	.121312	.000000		. 000000
BLOCK1HG	PROBABIL	ITIES FOR C	- 20 A	- 2
LOAO				
	OUTER	INNER (28)	1NHER(35)	1NHER(42)
		IHHER (28)		1NNER(42)
		.002036		
5.0 6.0	. 000000		.004729	. 00 95 3 3
<b>S.</b> 0 6.0 7.0	.000000 .000004 .000030	.002036 .003348 .005059	.004729 .007640 .011546	.009533
S.0 6.0 7.0 8.0	.000000	.002036	.004729	.009533 .015101 .021995
5.0 6.0 7.0 8.0 9.0	- 000000 - 000004 - 000030 - 000159 - 000617	.002036 .005348 .005059 .007182 .009715	.004729 .007640 .011544 .015833	.009533 .015101 .021995 .030150
S.0 6.0 7.0 8.0 9.0 10.0	- 000000 - 000004 - 000030 - 000159 - 000617 - 001869	.002036 .003348 .005059 .007182 .009715 .012627	.004729 .007440 .011344 .015833 .021044	.009533 .015101 .021995 .030150 .039367
S.0 6.0 7.0 8.0 9.0 10.0 11.0	.000000 .000004 .000030 .000159 .000417 .001869 .004640	.002036 .005348 .005059 .007182 .009715 .012627 .015855	.004729 .007640 .011344 .015833 .021064 .026948 .033336	.009533 .015101 .021995 .030150 .039347 .049504
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0	.000000 .000004 .000030 .000159 .000617 .001869 .004640 .009796	.002036 .003348 .005059 .007182 .009718 .012627 .015855 .019295	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .040022	.009533 .015101 .021995 .030150 .039347 .049504 .049504
5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0	.000000 .00004 .000050 .000159 .000617 .001869 .004640 .009796 .018110	.002036 .003348 .005059 .007182 .009715 .012627 .015855 .019295 .022822	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .040022 .046764	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .040245 .071301 .0782230
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0	.000000 .00004 .000030 .000159 .000617 .001869 .004640 .009796 .018110 .030035	.022034 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .024301	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .040022 .046764 .053321	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .040245 .071301 .0782230
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0	.000000 .00004 .000030 .000159 .000617 .001869 .004640 .009796 .018110 .030035	.002036 .003348 .005059 .007182 .009715 .012627 .015855 .019295 .022822	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .040022 .046764	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .040245 .071501 .078230 .092494
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0	.000000 .00004 .000030 .000159 .000617 .001869 .002640 .009796 .018110 .010035 .045593	.022034 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .024301	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .040022 .046764 .053321	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .072230 .092494 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 12.0 15.0 14.0 15.0	.000000 .000004 .000030 .000159 .000617 .001869 .004640 .009796 .018110 .030035 .045593	.002036 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .028401 .029618	.004729 .007640 .011344 .015833 .021064 .026948 .033336 .046964 .053321 .059497	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCK ING	.000000 .00004 .00030 .00159 .00617 .01869 .00440 .009796 .018110 .030035 .045595	.002036 .003348 .005059 .007182 .007182 .012627 .015855 .012252 .022822 .026301 .029618	.004729 .007640 .011344 .015833 .221044 .026948 .033356 .040022 .046764 .053521 .059497	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 BLOCKING	.000000 .00004 .000030 .000159 .000417 .001869 .004640 .009796 .018110 .030035 .045593 PRC5AB1L DUTER	.002036 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .026301 .029618 ITTLES FOR ( ITTLES FOR (28)	.004729 .007640 .011344 .015833 .021064 .026948 .035356 .040022 .046764 .053321 .059497 	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .040245 .071301 .072230 .092494 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 BLOCKING	.000000 .00004 .000030 .000159 .000417 .001869 .004640 .009796 .018110 .030035 .045593 PRC5AB1L DUTER	.002036 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .026301 .029618 ITTLES FOR ( ITTLES FOR (28)	.004729 .007640 .011544 .015835 .021064 .026948 .053356 .040022 .046764 .053321 .059497 .2 = 20 A	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .040245 .071301 .072230 .092494 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 BLOCKING	.000000 .00004 .000030 .000159 .000417 .001869 .004640 .009796 .018110 .030035 .045593 PRC5AB1L DUTER	.002036 .003348 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .026301 .029618 ITTLES FOR ( ITTLES FOR (28)	.004729 .007640 .011344 .015833 .021064 .026948 .035356 .040022 .046764 .053321 .059497 	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .040245 .071301 .072230 .092494 .102417
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 BLOCKING	.000000 .00004 .000030 .000159 .000417 .001869 .004640 .009796 .018110 .030035 .045593 PRC5AB1L OUTER	.002036 .003148 .005059 .007182 .009718 .012427 .015855 .019295 .022822 .024501 .029618	.004729 .007640 .011344 .015833 .021064 .0264948 .033336 .040022 .046764 .053321 .059497 C = 20 A INOVER(35) .000148 .000292	.009533 .015101 .021995 .030150 .039547 .049504 .040245 .071501 .092494 .102417 .042417
5.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 BLOCK IMG BLOCK IMG	.000000 .00004 .00030 .000159 .00047 .001849 .00440 .009794 .018110 .030035 .045593 PROBABIL OUTER .000000	.002036 .003348 .005059 .007182 .0097182 .0192427 .015855 .012252 .022822 .024301 .029618	.004729 .007640 .011344 .015833 .221064 .026948 .035336 .046764 .055321 .059497 C = 20 A INAGER (35) .000148 .000292 .000513	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .072250 .092494 .102417
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCKING BLOCKING 5.0 6.0	.000000 .00004 .00030 .00159 .00417 .001849 .02440 .018110 .03035 .045593 PROBABIL OUTER .000000 .00000	.002036 .003348 .005059 .007182 .0097182 .019295 .012427 .015855 .022822 .024501 .029418 ITTES FOR C INNER (28) .000045 .000045	.004729 .007640 .011344 .015833 .221064 .026948 .035354 .040022 .046764 .055321 .059497 .059497 .059497 .059497 .000148 .000292 .000148 .000292	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417 .002417 .00247 .000407 .000789 .001344 .002171
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCKING LOAD 5.0 6.0 7.0	.000000 .00004 .00030 .00159 .00617 .01869 .02640 .030150 .01810 .030035 .045595 PRCBAB1L DUTER .000000 .000004 .000004	.002036 .003348 .005059 .007182 .0097182 .0097182 .019295 .019295 .022822 .026301 .029618 .01929618 .029618 .029618 .029618 .02060 .000045 .000045 .000090 .000160	.004729 .007640 .011344 .015833 .221044 .026948 .033354 .040022 .046764 .053321 .059497 .059497 .059497 .059497 .000148 .000292 .000148 .000292 .0001254	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417 .002417 .000407 .000789 .001344 .002171 .003258
S.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCKING BLOCKING 	.000000 .00004 .00030 .00159 .00617 .001869 .004440 .03015 .045595 PRC5AB1L OUTER .000000 .000004 .000000 .000159	.002036 .003348 .005059 .007182 .007182 .012427 .012427 .012455 .019295 .022822 .024501 .029618 ITTES FOR 0 ITTES FOR 0 ITTES FOR 0	.004729 .007440 .011344 .015833 .021044 .024948 .033334 .040022 .044744 .053321 .059497 .059497 .059497 .000148 .000292 .000513 .000829 .001254 .001800	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417 .002417 .000407 .000407 .000789 .001344 .002171
S.0 6.0 7.0 8.0 5.0 10.0 11.0 12.0 12.0 12.0 14.0 15.0 BLOCKING BLOCKING 5.0 6.0 7.0 8.0 9.0	.000000 .00004 .00030 .00159 .00617 .001869 .00460 .009796 .018110 .03035 .045593 PRCBABIL DUTER .000000 .000000 .000000 .000159 .000617	.002036 .003348 .005059 .007182 .007182 .012427 .012427 .015855 .022822 .022822 .022818 .029618 .029618 .029618 .029618 .000045 .000045 .000045 .000263 .000403	.004729 .007640 .011344 .015833 .221064 .026948 .033356 .04022 .046764 .053321 .059497 .059497 .059497 .000148 .000292 .000148 .000292 .000155 .000829 .001256 .001800 .002458	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .049245 .071301 .072250 .092494 .102417 - 4 INSER(42) .000407 .000407 .000789 .00154 .002171 .00258 .004573 .004141
S.0 6.0 7.0 8.0 5.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCK ING BLOCK ING 5.0 6.0 7.0 8.0 9.0 10.0	.000000 .00004 .00030 .00159 .00617 .001869 .006460 .00776 .018110 .030035 .065593 PRCBABIL DUTER .000000 .000000 .000000 .000059 .000159 .000617 .001869	.002036 .003348 .005059 .007182 .007182 .012427 .015855 .012427 .015855 .022822 .024501 .022818 ITTLES FOR C .029618 ITTLES FOR C .00045 .000045 .000045 .000263 .000403 .001585	.004729 .007440 .011344 .015833 .021064 .024948 .033334 .040022 .044764 .053321 .059497 .059497 .000148 .000292 .000148 .000292 .000513 .000829 .001256 .001800	.009533 .015101 .021995 .030150 .039547 .049504 .049504 .040245 .071501 .072250 .092494 .102417 .002417 .000407 .000789 .00154 .002171 .00328 .004575 .004141 .007956
S.0 6.0 7.0 8.0 5.0 10.0 11.0 12.0 15.0 14.0 15.0 BLOCK ING BLOCK ING 5.0 6.0 7.0 8.0 9.0 10.0 11.0	.000000 .00004 .00030 .00159 .00617 .01869 .00440 .018110 .030035 .045593 PRCBABIL OUTER .000000 .000000 .000159 .00417 .001869 .00440	.002036 .003348 .005059 .007182 .007182 .012427 .015855 .012427 .015855 .022822 .024501 .029618 .029618 .029618 .029618 .00045 .000045 .000045 .000045 .000045 .0000403 .000403 .001585 .001808	.004729 .007640 .011344 .015833 .221064 .026948 .033356 .04022 .046764 .053321 .059497 .059497 .059497 .000148 .000292 .000148 .000292 .000155 .000829 .001256 .001800 .002458	.009533 .015101 .021995 .030150 .039347 .049504 .049504 .049245 .071301 .072250 .092494 .102417 - 4 INSER(42) .000407 .000407 .000789 .00154 .002171 .00258 .004573 .004141
5.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 10.0	.000000 .00004 .00030 .000159 .00417 .001849 .00440 .00776 .018110 .05035 .045593 PROBABIL DUTER .000000 .00000 .00000 .000159 .004617 .001849 .004420 .00776	.002036 .003348 .005059 .007182 .0097182 .0192427 .015855 .022822 .024301 .029618 ITTLES FOR C .000045 .000045 .000045 .0000405 .000263 .001607	.004729 .007440 .011344 .015833 .021064 .024948 .033334 .040022 .044764 .053321 .059497 .059497 .000148 .000292 .000148 .000292 .0001254 .001254 .001254 .001254 .001254	.009533 .015101 .021995 .030150 .039547 .049504 .049504 .040245 .071501 .072250 .092494 .102417 .002417 .000407 .000789 .00154 .002171 .00328 .004575 .004141 .007956
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 10.0 11.0 12.0 13.0 10.0 11.0 12.0 13.0	.000000 .00004 .00030 .000159 .00047 .001849 .00440 .009794 .018110 .030035 .045593 PROBABIL OUTER .000000 .000000 .000004 .000000 .000159 .00440 .001849 .00440 .009794 .018110	.002036 .003348 .005059 .007182 .0097182 .019257 .012427 .015855 .022822 .024501 .029418 ITTLES FOR C .00045 .000045 .000045 .000160 .000160 .000263 .000403 .000167 .001253	.004729 .007440 .011344 .015833 .021064 .024948 .033336 .040022 .046764 .053321 .059497 .04764 .053321 .059497 .05148 .000292 .000148 .000292 .000513 .000829 .001254 .001254 .001254 .001254 .003212 .00434	.009533 .015101 .021995 .030150 .039547 .049504 .049504 .040245 .071501 .072250 .092494 .102417 .002417 .000407 .000789 .001544 .002171 .003238 .004573 .004141 .007956 .009885
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 14.0 10.0 11.0 12.0 14.0 10.0 11.0 12.0 14.0 14.0 10.0 11.0 12.0 14.0 14.0 14.0 10.0 11.0 12.0 14.0 14.0 14.0 14.0 15.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0	.000000 .00004 .00030 .00159 .00617 .001869 .02440 .018110 .03035 .045593 PRC5AB1L OUTER .000000 .000004 .000004 .000059 .000617 .001869 .00417 .001869 .00417 .001869	.002036 .003348 .005059 .007182 .0097182 .0097182 .019295 .022822 .024501 .029418 ITTES FOR C .00045 .000045 .000045 .000265 .000403 .00167 .001555 .001652	.004729 .007440 .011344 .015833 .021064 .024948 .053334 .040022 .046764 .053321 .059497 .059497 .00148 .000292 .000148 .000292 .000148 .000292 .000155 .000829 .001254 .001800 .00258 .003212 .004034 .004887	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092494 .102417 .009494 .102417 .000407 .000407 .000789 .00154 .002171 .003238 .004573 .004141 .007954 .009855 .011844
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 14.0 10.0 11.0 12.0 14.0 10.0 11.0 12.0 14.0 14.0 10.0 11.0 12.0 14.0 14.0 14.0 10.0 11.0 12.0 14.0 14.0 14.0 14.0 15.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0	.000000 .00004 .00030 .00159 .00617 .001869 .004440 .03035 .045595 PRCBABIL OUTER .000000 .00004 .000159 .00417 .001869 .00440 .01810 .00595 .045595	.002036 .003348 .005059 .007182 .007182 .012427 .012427 .012455 .01295 .022822 .024501 .029618 ITTES FOR 0 .029618 ITTES FOR 0 .00045 .000045 .000045 .000263 .000403 .001585 .001067 .001552 .001952	.004729 .007440 .011344 .015833 .021064 .024948 .053334 .040022 .046764 .053321 .059497 .059497 .00148 .000292 .000148 .000292 .000148 .000292 .000155 .000829 .001254 .001800 .00258 .003212 .004034 .004887	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .072250 .072494 .102417 .002417 .002417 .000407 .000407 .000789 .001344 .002171 .00528 .004573 .004141 .007954 .001844 .013813
S.0 6.0 7.0 8.0 5.0 10.0 11.0 12.0 15.0 BLOCKING BLOCKING 	.000000 .00004 .00030 .00159 .00617 .001869 .004640 .0035 .045595 PRCBABIL OUTER .00000 .00004 .00030 .00159 .00467 .001869 .00460 .0035 .045595	.002036 .003348 .005059 .007182 .007182 .012427 .012427 .015855 .022822 .022621 .022618 .029618 .029618 .029618 .029618 .029618 .000045 .000045 .000045 .000403 .00165 .001067 .001952	.004729 .007640 .011344 .015833 .221064 .026948 .035356 .046764 .055321 .059497 .059497 .059497 .000148 .000292 .000148 .000292 .000513 .000829 .001256 .001800 .002458 .005212 .00454 .005735	.009533 .015101 .021995 .030150 .039347 .049504 .040245 .071301 .092454 .102417 .002417 .000407 .000407 .000789 .001344 .002171 .00528 .004573 .0046141 .007954 .013845 .013813
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 16.0 10.0 10.0 15.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 15.0	.000000 .00004 .00030 .000159 .00047 .001849 .00440 .009794 .018110 .030035 .045593 PROBABIL OUTER .000000 .00000 .000059 .000440 .00159 .004420 .009794 .018110 .330355 .045593 PROBABIL	.002036 .003348 .005059 .007182 .0097182 .0192427 .015855 .022822 .024301 .029618 .029618 .029618 .029618 .029618 .029618 .000045 .0000405 .0000405 .0000405 .000265 .000265 .001067 .001555 .001652 .001552	.004729 .007440 .011344 .015833 .021064 .024948 .033334 .040022 .046764 .053321 .059497 .059497 .000148 .000292 .000148 .000292 .000513 .0001254 .001255 .005735 .005735	.009533 .015101 .021995 .030130 .039347 .049504 .049245 .071301 .072230 .092494 .102417 - 4 INSER(42) .000407 .000789 .001344 .002171 .00528 .004573 .004141 .007954 .009885 .011844 .013813
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 15.0 14.0 15.0 16.0 10.0 10.0 15.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 15.0	.000000 .00004 .00030 .000159 .00047 .001849 .00440 .009794 .018110 .030035 .045593 PROBABIL OUTER .000000 .00000 .000059 .000440 .00159 .004420 .009794 .018110 .330355 .045593 PROBABIL	.002036 .003348 .005059 .007182 .0097182 .0192427 .015855 .022822 .024301 .029618 .029618 .029618 .029618 .029618 .029618 .000045 .0000405 .0000405 .0000405 .000265 .000265 .001067 .001555 .001652 .001552	.004729 .007640 .011344 .015833 .221044 .026948 .033354 .040022 .046764 .053321 .059497 .059497 .059497 .000148 .000292 .000148 .000292 .000148 .000292 .000153 .000829 .001254 .0001254 .0001254 .0001254 .0001254 .000125 .0001254 .000125 .000000000000000000000000000000000000	.009533 .015101 .021995 .030130 .039347 .049504 .049245 .071301 .072230 .092494 .102417 - 4 INSER(42) .000407 .000789 .001344 .002171 .00528 .004573 .004141 .007954 .009885 .011844 .013813
S.0 4.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 15.0	.000000 .00004 .00030 .000159 .00047 .001849 .00440 .009794 .018110 .030035 .045593 PROBABIL OUTER .000000 .00000 .000059 .000440 .00159 .004420 .009794 .018110 .330355 .045593 PROBABIL	.002036 .003348 .005059 .007182 .0097182 .0192427 .015855 .022822 .024301 .029618 .029618 .029618 .029618 .029618 .029618 .000045 .0000405 .0000405 .0000405 .000265 .000265 .001067 .001555 .001652 .001552	.004729 .007440 .011344 .015833 .021064 .024948 .033334 .040022 .046764 .053321 .059497 .059497 .000148 .000292 .000148 .000292 .000513 .0001254 .001255 .005735 .005735	.009533 .015101 .021995 .030130 .039347 .049504 .049245 .071301 .072230 .092494 .102417 - 4 INSER(42) .000407 .000789 .001344 .002171 .00528 .004573 .004141 .007954 .009885 .011844 .013813

13.0	.001029	.000055	.000234	.000785
14.0	.002419	.000076	.000320	.001062
		.000102		.001389
15.0	.005011		,000423	
16.0	.009319	.030131	.000542	.001760
17.0	.015801	.000164	.000672	.0021+5
18.0	.024756	.000199	. 000809	.002589
19.0	.010273	.000234	.000950	.003019
20.0	. 050222	.000270	.001089	. 003443
20.0				
BLOCKING	PROBABIN	ITIES FOR (	C # 25 A	+ +
LOAD	OUTER	INNER (28)	THNER (35)	1-INER (42)
10.0	.000029	.000000	.000002	. 000009
11.0	.000117	.000001	.000003	.000015
12 0	.000378	.000001	.000005	.000024
13.0	.001029	.000001	. 200008	.000027
14.0	.002419	.000002	.000012	. 000054
15.0	.005011		.000017	.000075
16.0	.009319		.000022	.000100
17.0	.015801	.000005	.000029	.000129
18.0	.024750	.000006	.000036	000161
19.0	.036273	.000008	.000344	.300194
20.0	.050222	. 0 0 0 0 0 9	.000052	.000227
20.0				
8LOCKING	PROSABIL	ITIES FOR C	: • 25 A	• 7
LOAD	OUTER	INNER (28)	1NHER(35)	INNER (42)
10.0	.000029	.000000	.000000	. 000000
11.0	.000117		.000000	.000000
12.0	.000378	.000000	.000000	.000001
13.0	.001029	.000000	.000000	.000001
14.0	.002419		.000000	.000002
		. J00000	.000000	.000002
15.0	.005011		.000000	.000002
15.0 16 0	.005011	. J00000 . 000000 . 000000	.000000 .000000 .000001	.000002 .000003 .000004
15.0 16 0 17.0	.005011 .009319 .015801	. J00000 . 000000 . 000000 . 000000	.000000 .000000 .000001 .000001	.000002 .000003 .000004 .000005
15.0 16 0	.005011	. J00000 . 000000 . 000000	.000000 .000000 .000001	.000002 .000003 .000004
15.0 16 0 17.0	.005011 .009319 .015801	. J00000 . 000000 . 000000 . 000000	.000000 .000000 .000001 .000001	.000002 .000003 .000004 .000005
15.0 160 17.0 18.0	.005011 .009319 .015801 .024756	. J 0 0 0 0 0 . 0 0 0 0 0 0 . 0 0 0 0 0 0 . 0 0 0 0	.000000 .000000 .000001 .000001	.000002 .000003 .000004 .000005 .000007 ,
15.0 160 17.0 18.0 19.0	.005011 .009319 .015801 .024756 .030273	. 000000 . 000000 . 000000 . 000000 . 000000	.000000 .000000 .000001 .000001 .000001	.000002 .000003 .000004 .000005 .000005 .000007
15.0 160 17.0 18.0 19.0	.005011 .009319 .015801 .024756 .030273	. 000000 . 000000 . 000000 . 000000 . 000000	.000000 .000000 .000001 .000001 .000001	.000002 .000003 .000004 .000005 .000005 .000007
15.0 160 17.0 18.0 19.0 20.0	.005011 .009319 .015801 .024756 .030273 .050222	000000 000000 000000 000000 000000 00000	.00000 .00000 .00001 .00001 .00001 .00001 .00001 .00002	.00002 .00003 .00004 .00005 .00007 .00007 .000028
15.0 160 17.0 18.0 19.0 20.0	.005011 .009319 .015801 .024756 .036273 .050222 PRO8AB1L	. J00000 .000000 .000000 .000000 .000000 .000000	.000000 .000000 .000001 .000001 .000001 .000001 .000002	.000002 .000003 .000004 .000005 .000007 .000028 .000010
15.0 160 17.0 18.0 19.0 20.0	.005011 .009319 .015801 .024756 .036273 .050222 PRO8AB1L	. J00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00000 .000001 .000001 .000001 .000002	.000002 .000003 .000004 .00005 .000057 .000058 .000010
15.0 160 17.0 18.0 19.0 20.0 8LOCK ING	.005011 .009319 .015001 .024756 .030273 .050222 PRO8AB1L	.J00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000002	.000002 .000003 .000004 .00005 .000057 .000058 .000010 * 8 INNER(42)
15.0 160 17.0 18.0 19.0 20.0 8LOCK ING	.005011 .009319 .015001 .024756 .030273 .050222 PRO8AB1L	.J00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000002	.000002 .000003 .000004 .00005 .000057 .000058 .000010
15.0 16.0 17.0 18.0 19.0 20.0 BLOCK ING LOAD	.005011 .009319 .015001 .024756 .030273 .050222 PRO8AB1L	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .1TIES FOR C .1NNER(28)	.00000 .00000 .00001 .00001 .00001 .00001 .00002	.000002 .000003 .000004 .000005 .000007 .000028 .000010
15.0 16.0 17.0 18.0 19.0 20.0 BLOCK ING 	.005011 .009319 .015801 .024756 .036273 .050222 PROBABIL OUTER .000029	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .1TIES FOR C .1NNER(28)	.000000 .000000 .000001 .000001 .000001 .000002 • 25 A INNER(35) .000000	.000002 .000003 .000004 .000005 .000007 .000028 .000010
15.0 160 17.0 18.0 19.0 20.0 BLOCK ING LOAD 10.0 11.0	.005011 .009319 .015801 .024756 .030222 PROBABIL OUTER .000029 .000117	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .111ES FOR C	.000000 .000001 .00001 .00001 .00001 .00000 .000002	.000002 .000004 .000005 .00005 .00007 .00007 .00000 .00000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0	.005011 .009319 .015801 .024756 .03+275 .050222 PROBABIL OUTER .000029 .000117 .000378	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .1TIES FOR C .000000 .000000 .000000	.000000 .000001 .00001 .00001 .00001 .00000 .000002 .000000 .000000 .000000 .000000	.000002 .000004 .000005 .000007 .000008 .000010 • 8 INNER(42) .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0 13.0	.005011 .009319 .015801 .024756 .03+275 .050222 PRO8AB1L OUTER .000029 .000117 .000378 .001029	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .1TIES FOR C .000000 .000000 .000000 .000000	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000002 .000004 .00005 .00007 .00007 .000028 .000010 .00000 .00000 .00000 .00000 .00000
15.0 160 17.0 18.0 19.0 20.0 BLOCKING BLOCKING 10.0 11.0 12.0 13.0 14.0	.005011 .009319 .015801 .024756 .03+275 .050222 PRO8AB1L OUTER .000029 .000117 .000378 .001029 .002419	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .1TIES FOR C .1NNER(28) .000000 .000000 .000000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .00003 .00004 .00005 .00007 , .00007 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0 14.0 15.0	.005011 .009319 .015801 .024756 .03+275 .050222 PRO8AB1L OUTER .000029 .000117 .000378 .001029	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000002 .000004 .00005 .00007 .00007 .000028 .000010 .00000 .00000 .00000 .00000 .00000
15.0 160 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0 15.0	.005011 .009319 .015801 .024756 .03+275 .050222 PRO8AB1L OUTER .000029 .000117 .000378 .001029 .002419	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .000001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .00003 .00004 .00005 .00007 , .00007 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCK ING LOAD 10.0 11.0 12.0 15.0 16.0	.005311 .009319 .015801 .024756 .034273 .050222 PROBABIL DUTER .000029 .000117 .000127 .002419 .002419 .005011 .009319	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .000001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .00003 .00004 .00005 .00037, .000308 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 8LOCK ING LOAD 10.0 11.0 12.0 15.0 16.0 17.0	.005311 .009319 .015801 .024756 .034273 .050222 PROBABIL OUTER .000029 .000117 .000378 .002419 .002419 .005011 .009319	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .00003 .00004 .00005 .00037, .000308 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCK ING COAD 10.0 11.0 12.0 15.0 16.0 17.0 18.0	.005011 .009319 .015801 .024756 .050222 PROBABIL OUTER .000029 .000117 .000378 .001029 .002419 .005011 .005011 .00531	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00007 , .00007 , .00007 .00000 .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 BLOCK ING COAD 10.0 11.0 12.0 15.0 16.0 17.0 18.0 19.0 19.0 19.0 19.0 19.0 10.0 11.0 10.0 11.0 10.0 11.0 10.0 1	.005011 .009319 .015801 .024756 .050222 PROBABIL OUTER .000029 .000117 .000378 .001029 .002419 .005011 .005011 .005011 .024756 .034273	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .000001 .00001 .00001 .00001 .000002 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00007 , .00007 , .00007 .00000 .000000 .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCK ING COAD 10.0 11.0 12.0 13.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 19.0 20.0 10	.005011 .009319 .015801 .024756 .034273 .050222 PROBABIL OUTER .000029 .000117 .000378 .001029 .002419 .005011 .015801 .015801 .0158021	. J00000 .00000	.000000 .000001 .00001 .00001 .00001 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000002 .000004 .00005 .00007 .00007 .00008 .000010 .000000 .000000 .000000 .000000 .000000
15.0 160 17.0 18.0 19.0 20.0 BLOCK ING LOAD 10.0 11.0 12.0 13.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 19.0 20.0 19.0 20.0 10	.005011 .009319 .015801 .024756 .034273 .050222 PROBABIL OUTER .000029 .000117 .000378 .001029 .002419 .005011 .024756 .015801	. J00000 .00000	. 000000 . 00000 . 00001 . 00001 . 00001 . 00001 . 00000 . 000000 . 000000 . 000000 . 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000000	.000002 .000004 .00005 .00007,, .00007,, .00007 .000008 .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 17.0 19.0 20.0 	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .00017 .000378 .001029 .002419 .005011 .024756 .034273 .050222	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00037, .00037, .000308 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 BLOCKING LOAD 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 17.0 19.0 20.0 	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .00017 .000378 .001029 .002419 .005011 .024756 .034273 .050222	. J00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00037, .00037, .000308 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 8LOCK ING 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 1	.005311 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .00017 .0002419 .0002419 .015801 .024756 .034273 .050222	. J00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00037, .00037, .000308 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 BLOCKING 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 20.0 10	.005311 .009319 .015801 .024756 .039273 .050222 PROBABIL DUTER .000029 .000177 .000378 .002419 .005011 .009319 .015801 .224756 .036273 .050222	. J00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00007,, .00008 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 8LOCK ING 10.0 11.0 12.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0 10.0 11.0 12.0 15.0 16.0 17.0 10.0 1	.005311 .009319 .015801 .024756 .034273 .050222 PROBABIL OUTER .000029 .000117 .000378 .002419 .005411 .009319 .015801 .024754 .05222 PROBABIL OUTER	. J00000 .00000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00007 .00008 .000010 * 8 INNER (42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 19.0 20.0 8LOCK ING 10.0 11.0 12.0 15.0 16.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 10.0 11.0 12.0 15.0 16.0 17.0 10.0 1	.005311 .009319 .015801 .024756 .050222 PROBABIL OUTER .000029 .00017 .00029 .002419 .002419 .005011 .024756 .036273 .050222 PROBABIL OUTER	. J00000 .00000	.000000 .00000 .00001 .00001 .00001 .000000	.000002 .00003 .00004 .00005 .00007 .00007 .000008 .000010 .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 ELOCK ING 10.0 11.0 12.0 15.0 16.0 17.0 18.0 19.0 20.0 ELOCK ING 19.0 20.0 15.0 ELOCK ING 15.0 15.0 ELOCK ING 15.0	.005311 .009319 .015801 .024756 .050222 PROBABIL OUTER .000029 .000177 .0002419 .005011 .024756 .036273 .050222 PROBABIL OUTER .000221	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000000	.000002 .000004 .00005 .00007 , .00007 , .00008 .000010 • 8 INNER (42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 20.0 8LOCKING 10.0 11.0 12.0 13.0 14.0 15.0 16.0 19.0 20.0 15.0 19.0 20.0 15.0 15.0 16.0 15.0 16.0	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .000378 .001029 .002419 .005011 .0024756 .034275 .034275 .050222 PRO8A81L OUTER .000221 .000544	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 = 25 A INMER (35) .000000 .000000	.000002 .00003 .00004 .00005 .00037 , .00037 , .00037 .00037 .00037 .00037 .000010 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 20.0 8LOCKING 10.0 11.0 12.0 13.0 14.0 15.0 16.0 19.0 20.0 15.0 19.0 20.0 15.0 15.0 16.0 15.0 16.0	.005311 .009319 .015801 .024756 .050222 PROBABIL OUTER .000029 .000177 .0002419 .005011 .024756 .036273 .050222 PROBABIL OUTER .000221	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 = 25 A INMER (35) .000000 .000000	.000002 .000004 .00005 .00007 , .00007 , .00008 .000010 • 8 INNER (42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 19.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 19.0 20.0 15.0 16.0 17.0 19.0 20.0 15.0 16.0 17.0 17.0 16.0 17.0 16.0 17.0 17.0 18.0 19.0 20.0 10.0	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .000378 .001029 .002419 .005011 .0024756 .034275 .034275 .050222 PRO8A81L OUTER .000221 .000544	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 = 25 A INMER (35) .000000 .000000	.000002 .00003 .00004 .00005 .00037 , .00037 , .00037 .00037 .00037 .00037 .000010 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 19.0 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 15.0 16.0 17.0 18.0 17.0 18.0 15.0 16.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 10.0 11.0 15.0 16.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 20.0 10.0 10.0 10.0 10.0 11.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .00017 .000378 .001029 .002419 .005011 .024756 .036273 .050222 PRO8A81L OUTER .000221 .000544 .000221 .000544	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00004 .00005 .00007 .00008 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 19.0 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 10.0 17.0 10.0 17.0 10.0 11.0 12.0 14.0 15.0 14.0 15.0 16.0 17.0 18.0 17.0 18.0 19.0 10.0 11.0 12.0 15.0 16.0 17.0 18.0 17.0 19.0 10.0 11.0 12.0 15.0 16.0 17.0 18.0 17.0 18.0 19.0 10.0 17.0 18.0 19.0 10.0 11.0 12.0 14.0 15.0 16.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 19.0 10.0 17.0 18.0 19.0 20.0 19.0 10.0 11.0 15.0 16.0 17.0 18.0 19.0 10.0 11.0 15.0 16.0 17.0 18.0 19.0 10.0 10.0 11.0 10.0 11.0 15.0 16.0 17.0 18.0 19.0 10.0	.005311 .009319 .015801 .024756 .034273 .050222 PRO8ABIL OUTER .00029 .00017 .000219 .0002419 .015801 .024756 .034273 .050222 PRO8ABIL OUTER .000221 .000544 .001281 .002422 .001281	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00005 .00007, .00008 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000
15.0 15.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 ELOAD 10.0 11.0 12.0 14.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0 11.0 12.0 15.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0 10.0 11.0 12.0 15.0 16.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 20.0 10.0 15.0 16.0 17.0 18.0 19.0 20.0 19.0 20.0 19.0 20.0 10.0 10.0 10.0 11.0 12.0 15.0 16.0 17.0 18.0 19.0 20.0 10.0	.005011 .009319 .015801 .024756 .034273 .050222 PRO8AB1L OUTER .000029 .00017 .000378 .001029 .002419 .005011 .024756 .036273 .050222 PRO8A81L OUTER .000221 .000544 .000221 .000544	. J00000 .000000	.000000 .00000 .00001 .00001 .00001 .000001 .000002 .000000 .000000 .000000 .000000 .000000	.000002 .000004 .00004 .00005 .00007 .00008 .000010 * 8 INNER(42) .000000 .000000 .000000 .000000 .000000

5.0	.000000	.000001	.000003	.000010
e - 0	.000004	.000001	.000007	.000024
7.0	.000030	.000003	.000014	.000050
8 0	.000159	.000006	.000026	.000092
• 0	.000616	.000010	.000044	.000156
0 01	.0018-8	.000016	000070	.000245
11.0	.004019	.000024	000105	000:03
12 0	.009745	000034	6-1000	.000507
15 0	.018109	.0000~0	000108	.000073
14.0	.0:0.25	300059	.000252	.000852
:5 0	.0~5593	. 000073	.:::::::::::::::::::::::::::::::::::::	. Cúl037
8LUCKING	S PROBABIL	ITIES FOR	C + 20 A	+ 6
LUAD	OUTER	INNER (29)	INNER (35)	(HHER(42)
5.0	. 0000000	00000	.000000	.00000
<b>o</b> .0	.000004		. 000000	.003001
7.3	.030010		. 000000	. 000001
8.0	000159	.000000	.030001	.000003
3.0	. 3006.6	.000000	.000001	.000005
10.0	.001868	. 000000	. 300002	.000009
11.0	001000	.000000	.000003	.000014
	.004795	0000001	. 300004	.000020
12.0	.018109			.000029
13.0			.000006	
14.0	.030035	.00001	.000008	.000038
15.0	.0~5593	.000002	.000010	.000048
		ITIES FOR (		• 7
LCAD	OUTER	INNER(28)	INNER(35)	INNER (42)
5.0	.000000	.000000	. 000000	.000000
6.J	.000004	.000000	.000000	.000000
7.0	.000030	. : : : : : : : : : : : : : : : : : : :	. 000000	.000000
8.0	.000159	.000000	.000000	.000000
9.0	. 000616	.000000	.000000	.000000
10.0	.0018.8	. 300000	.000300	.000000
11.0	.004639	.000000	.000000	.000000
12.0	.009795	. 000000	.000000	.030001
13.0	.018109	.000000	.000000	.000001
14.0	.010035	.000000	.000000	.000001
15.0	.045593	.000000	. 0 0 0 0 0 0	.000001
8LOCKING	PRC8A81L	ITIES FOR C	= 25 A	
LOAD	OUTER	INNER (28)	INNER (35)	(NNER (42)
		.000595	.001827	.004633
	.030117			.000236
12.0	.000378	.001141		.008375
- 13.0	.001029			.010748
14.0	.002419	.001932	.005626	.013431
15.0	.005011		.000 -51	.016375
15.0	.00931*	.002943	.008392	.019508
15.0	.015801			.022718
		.003502		
18.0	.024750	.004074	.011394	.025970
19.0	.036273	.004641		.029115
20.0	. 050222	.005190	.014313	.032102
			+ 25 A 4	
LOAD		NNER(28)	INNER (35)	INNER (42)
10.0	. 000029	. 0 0 0 0 1 7	. 0 0 0 0 7 3	. 00 0 2 5 3
10.0	.000029	.000017	.000073	.000253
10.0	.000029	.000017	. 0 0 0 0 7 3	.000253

22.0	.020535	.008079	.021390	.045920
25 0	.029384	.008986	.023600	.050214
24.0	.040121	.009863	.025719	.054290
25.0	.052603	.010696	.027718	. 058099
				**********
BLOCKIN	5 PRO84811	ITIES FOR	C = 20	k + 5
LCAD	OUTER	INNER(28)	INNER (35	INHER142)
15.0	.000221	.000108	.000446	.001454
1.0	.0005+4	.000144	.000588	.001893
		. 000.87	.000758	
17 0	. 061_91			.002410
19 0	002922	.000018	.000955	.001005
19 0	00-402	.000297	.001180	. 003670
20 0	.008-57	.000362	.001426	.004394
21 0	01:594	. 000432	.001+90	.0u5159
22 0	020535	.000505	.001964	. 005 948
23 0	.029186	.000580	.002242	.006740
24.0	.040121	.000+55	.002516	.007517
25.0	052603	.000727	.002782	008244
23.9	031003			000.00
BLOCK 1HG	PROBABIL	ITIES FOR	C = 30 A	• 6
LOAD	OUTER	INNER (281	INNER (35)	INNER (421
15.0	.000221	. 000005	.000018	.000081
16.0	. 3005+4	. 300004	.000026	.000114
17.0	.001291	.000006	.000035	.000154
18.0	.002622	.000008	.000047	.000204
19.0	. 064 902	.000011	.000061	.000262
20.0	.008457	. 300013	.000077	.000328
21.0	.013594	. 000017	. 300094	.000402
22.0	. 0 2 0 5 3 5	. 000020	. 000113	.000480
23.0	.029586	.000024	.000133	.000561
24.0	.040121	.000027	.000153	.000642
25.0	.052+03	.000031	.000173	.000723
BLOCKING	PRCBABIL	TIES FOR C	A 02 4	» 7
				INNER(42)
LOAD		HHER (28)	1HHHER (35)	
15.0	. 000221	. 000000	.000001	.000003
16.0	.000564	.000000	.000001	.000005
17.0	.001281	. 000000	.000001	. 000007
18.0	.002622	.000000	.000002	. 300009
	.004902	.000000	.000002	.000013
	.008457	.000000	.000003	. 000017
	.013594	.000000	.000004	.000021
	. 02 05 35	.000001	.000004	.000026
23.0	029386	. 000001	.000005	.000031
24.0	.040121	.000001	.000006	.000037
25.0	.052603	. 000001	.000007	.000042
			+ 30 A	
LOAD				INNER(42)
			.000000	
16.0	.000564	.000000	.000000	.000000
	.001281	.000000	. 0 0 0 0 0 0	.000000
	. 002+22		.000000	. 000000
		.000000	.000000	. 000000
19.0	006903			
3.5. 6	.004902			000001
	.008457		.000000	.000061
21.0	.008457 .01\$594	.000000	.000000	.000001
21.0	.008457 .01\$594	.000000	.000000	.000001
21.0 22.0	.008457 .013594 .020535	.000000	.000000	.000001
21.0 22.0 23.0	.008457 .013594 .020535 .029386	.000000 .000000 .000000	.000000 .000000 .000000	.000001
21.0 22.0 23.0 24.0	.008457 .013594 .020535 .029386 .040121	.000000 .000000 .000000	.000000 .000000 .000000	.000001 .000001 .000001

		111ES FOR		. = 9
LOAD	OUTER	INNER(28)	INNER (35)	1NHER(42)
15.0	.000221	.000000	.000000	.000000
16.0	.000564	.000000	.000000	.000000
17.0	.001281	000000	.000000	000000
18.0	.002422	. 000000	.000-00	.000000
19.0	.00-902	. 000000	00000	. 000000
20.0	.033457	00,000	. 000000	.000000
21 0	.013594	.00(000	.000000	
22.0	020535	.00(000		.000000
			. 000000	
23.0	.029586	000000		
24.0	.040121	.000000	.000000	.000000
25 0	.052003			000000
BLOCKIN	G PROBABIL	ITIES FOR	C = 35 A	
LOAD		INNER (28)	1HHER (35)	
20.0	000486	.006502	.017452	.037996
21.0	001393	.007584	.020082	0~3181
22.0	.002616	.008748	.022889	
23.0	.004578	.009981	.025818	.054123
24.0	.007514	.011263	.028823	.059726
25.0	.011646	.012572	.031854	.0.5301
26.0	.017149	.013884	.034859	.070759
27.0	.024128	.015177	.037789	.076020
28.0	.032606	.016429	.040601	.081018
29 0	.042527	.017624	. 34 3 2 6 3	.085704
30.0	.053771	.018751	.045752	.090049
.0.4.0			1NNER (351	INNER (+2)
20.0	.000686	.000388	.001517	.004633
21.0	.001395	.000477	.001845	.005570
22.0	.002616	.000577	.002213	.006602
23.0	.004578	.000689	.002616	.007719
23.0			.003048	.008904
26 0	007516	00.09.1.0		
24.0	.007514	.000810		
25.0	.011646	.000938	.003501	.010133
25.0 26.0	.011646 .017149	.000938	.003501	.010133
25.0 26.0 27.0	.011646 .017149 .024128	.000938 .001070 .001205	.003501 .003967 .004437	.010133 .011384 .012632
25.0 26.0 27.0 28.0	.011646 .017149 .024128 .032606	.000938 .001070 .001205 .001338	.003501 .003967 .004437 .004900	.010133 .011384 .012*32 .013855
25.0 26.0 27.0 28.0	.011646 .017149 .024128 .032606	.000938 .001070 .001205	.003501 .003967 .004437 .004900	.010133 .011384 .012*32 .013855
25.0 26.0 27.0 28.0	.011646 .017149 .024128 .032606 .042527	.000938 .001070 .001205 .001338 .001469	.003501 .003967 .004437 .004900	.010133 .011384 .012*32 .013855
25.0 26.0 27.0 28.0 29.0	.011646 .017149 .024128 .032606 .042527	.000938 .001070 .001205 .001338 .001469	.003501 .003967 .004437 .004900 .005350	.010133 .011384 .012*32 .013855 .015033
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771	.000938 .001070 .001205 .001338 .001469 .001595	.00501 .003947 .004437 .004900 .00550 .005780	.010133 .011384 .012432 .013855 .015033 .014153
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771	.000938 .001070 .001205 .001338 .001469 .001595	.003501 .003967 .004437 .004900 .005350 .005780	.010133 .011384 .012452 .013855 .015033 .014153
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C	.005501 .003967 .004457 .004900 .005350 .005780	.010155 .011584 .012452 .015855 .015055 .014155
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771 ; PROBABILI	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C	.005501 .003967 .004457 .004900 .005350 .005780	. 0 10 1 33 . 0 11 38 4 . 0 12 4 32 . 0 138 55 . 0 15 0 33 . 0 1 4 15 5 • 6 1 HMLER ( 4 2 )
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C	.005501 .003967 .004457 .004900 .005350 .005780	.010133 .011384 .012432 .013855 .015033 .014153
25.0 26.0 27.0 28.0 29.0 30.0	.011646 .017149 .024128 .032606 .042527 .053771 ; PROBABILI	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C	.005501 .003967 .004457 .004900 .005350 .005780	. 0 10 1 33 . 0 11 38 4 . 0 12 4 32 . 0 138 55 . 0 15 0 33 . 0 1 4 15 5 • 6 1 HMLER ( 4 2 )
25.0 26.0 27.0 28.0 29.0 30.0 	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000ER I	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C	.005501 .003967 .004457 .004900 .005350 .005780 	.010133 .011384 .012432 .013855 .015033 .014153
25.0 26.0 27.0 28.0 29.0 30.0 LOCKING 0AD	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .053771 .000886 .001593	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C 	.005501 .003967 .004457 .004900 .005350 .005780 	.010133 .011384 .012432 .013855 .015033 .014153 • 6 1444ER(42) .000360 .00056
25.0 26.0 27.0 28.0 29.0 50.0 COCKING 0AD	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .0008A81L1 .000686 .001393 .002616	.000938 .001070 .001205 .001338 .001469 .001595 THES FOR C 	.005501 .003967 .004457 .004457 .005350 .005780 	.010133 .011384 .012432 .013855 .015033 .014153 .016153 .000360 .000360 .000568
25.0 26.0 27.0 28.0 29.0 50.0 LOCK1NG OAD 20.0 21.0 22.0 25.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .005881L1 .000686 .001393 .002616 .004578	.000938 .001070 .001205 .001338 .001469 .001595 THES FOR C .001595 .000015 .000015 .000015 .000025 .000031	.005501 .003967 .004437 .004900 .005350 .005780 	.010133 .011384 .012432 .013855 .015033 .014153 * 6 1MmER(42) .000360 .000568 .000568 .000568
25.0 26.0 27.0 28.0 29.0 30.0 COCK1HG COCK1HG 20.0 21.0 22.0 23.0 24.0 25.0	.011646 .017149 .024128 .032606 .042527 .053771 PROBABILI OUTER I .000686 .001393 .002616 .004578 .007514 .011646	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C .001595 .000015 .000019 .000025 .000031 .000037 .000045	.005501 .003967 .004457 .00457 .005350 .005780 * 35 A * 35 A * 1NNER (35) * .000085 .000188 .000184 .000188 .000242	.010133 .011384 .012432 .013855 .015033 .014153 * 6 1NMER(42) .000360 .000568 .000568 .000694 .000834
25.0 26.0 27.0 28.0 29.0 30.0 	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001393 .002616 .004578 .007514 .011646 .017149	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C TIES FOR C .000015 .000015 .000015 .000015 .000037 .000045 .000052	.005501 .003967 .004437 .004900 .005350 .005780 * 35 A 1NNER (35) * 000108 .000108 .000126 .000203 .000242 .000283	.010155 .011384 .012452 .013855 .015035 .014155 * 6 .1HMER(42) .000540 .000546 .000546 .000844 .00084 .001142
25.0 26.0 27.0 28.0 29.0 50.0 COCKING OAD 20.0 21.0 22.0 23.0 24.0 25.0 24.0 27.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001593 .002616 .004578 .007514 .011646 .017149 .024128	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C TIES FOR C .000015 .000015 .000015 .000025 .000025 .000045 .000045 .000052 .000040	.005501 .003967 .004457 .004900 .005350 .005780 * 35 A * 1NHER (35) * 000108 .000108 .000108 .000136 .000203 .000242 .000283 .000255	.010133 .011384 .012432 .013855 .015033 .014153 .014153 .000340 .000340 .000546 .000546 .000844 .000844 .00084 .00142 .001305
25.0 26.0 27.0 28.0 29.0 50.0 COCK1NG OAD 20.0 21.0 22.0 23.0 24.0 25.0 25.0 25.0 25.0 26.0 25.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001593 .002616 .002618 .007514 .011646 .017149 .024128 .032606	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C TIES FOR C .000015 .000015 .000015 .000015 .000051 .000052 .000052 .000060 .000069	.005501 .003967 .004457 .004457 .005350 .005780 .005780 .000085 .000108 .000188 .000188 .000188 .000188 .000188 .000203 .000242 .000245 .00025 .000525	.010133 .011384 .012432 .013855 .015033 .014153 * * 1/mcER(42) .000340 .000548 .000548 .000548 .000548 .000548 .00034 .00034
25.0 26.0 27.0 28.0 29.0 30.0 COCK1NG COC	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001393 .002616 .004578 .007514 .01646 .017149 .024128 .032606 .042527	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C .000015 .000015 .000015 .000019 .000025 .000051 .000051 .000052 .000040 .000049 .000077	.005501 .003967 .004457 .004457 .005350 .005780 .005780 .000085 .000108 .000188 .000188 .000188 .000188 .000205 .000285 .000285 .000285 .000285 .000285 .000525	. 010133 . 011384 . 012432 . 013855 . 015033 . 014153 • 6 1 MMER(42) . 000360 . 000494 . 000834 . 000834 . 000834 . 000834 . 000834 . 000834 . 000834 . 000834 . 000834 . 0001468 . 001468 . 001468
25.0 26.0 27.0 28.0 29.0 50.0 COCK1NG OAD 20.0 21.0 22.0 23.0 24.0 25.0 25.0 25.0 25.0 26.0 25.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001593 .002616 .002618 .007514 .011646 .017149 .024128 .032606	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C TIES FOR C .000015 .000015 .000015 .000015 .000051 .000052 .000052 .000060 .000069	.005501 .003967 .004457 .004457 .005350 .005780 .005780 .000085 .000108 .000188 .000188 .000188 .000188 .000188 .000203 .000242 .000245 .00025 .000525	.010133 .011384 .012432 .013855 .015033 .014153 * * 1/mcER(42) .000340 .000548 .000548 .000548 .000548 .000548 .00034 .00034
25.0 26.0 27.0 28.0 29.0 30.0 CX1NG 0AD 20.0 21.0 22.0 23.0 24.0 25.0 24.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001393 .002616 .004578 .007514 .011646 .011646 .024128 .032606 .032606 .042527 .053771	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C .000015 .000015 .000015 .000015 .000015 .000017 .000052 .000040 .000052 .000040 .000077 .000085	.005501 .003967 .004457 .004457 .005350 .005780 - 35 A INNER (35) - 00085 .000108 .000156 .000168 .000168 .000168 .000205 .000242 .000245 .000245 .000245 .000247 .000410 .000451	.010133 .011384 .012432 .013855 .015033 .014153 * 6 1000560 .000568 .000568 .000568 .000568 .000834 .000834 .000834 .00142 .001305 .001428 .001785
25.0 26.0 27.0 28.0 29.0 30.0 COCK1HG COCK1HG 20.0 21.0 22.0 23.0 24.0 25.0 24.0 25.0 24.0 25.0 25.0 25.0 25.0 20.0	.011646 .017149 .024128 .032606 .042527 .053771 .053771 .000686 .001393 .002616 .004578 .007514 .011646 .017149 .024128 .032606 .042527 .053771	.000938 .001070 .001205 .001338 .001469 .001595 TIES FOR C .000015 .000015 .000015 .000015 .000015 .000017 .000052 .000040 .000052 .000040 .000077 .000085	.005501 .003967 .004437 .004437 .005350 .005780 * 35 A * 35 A * 1NNER (35) * 000085 .000188 .000188 .000184 .000242 .000242 .000245 .000367 .000410 .000451	.010155 .011384 .012452 .013855 .015035 .014155 * 6 .000340 .000340 .000340 .000340 .000346 .000834 .000834 .00142 .001305 .001488 .001429 .001785

LOAD			INNER (35)	
25.0	.001411			.010715
26.0	.002497	.001185	.004331	-012271
27.0	.004170	.001369	.004967	.013920
28.0	.006605	.001568		.015.37
29.0	.009971	.001776	.006333	.017598
30.0	.014409	.00:990	.007042	.019173
31.0	.020317	.001206	.007752	.020937
12.0	026838	.002421	.0:3254	.022++3
22 0	3:-80-	.002632	.009136	.02-323
34 0	.0012	.002836	.009792	025914
55.0	.05-244	.003030	.0.6414	.027414
		ITIES FOR		• •
10AD			1NHER ( 55 )	[NNER(42)
20.0	.000028	.000015	.000086	.000364
21.0	.000072	. 000020	.000111	.000465 -
22.0	. 300170	.000026	.000141	.000586
25.0	. 000571	.000032	.000177	.000729
24.0	.000748	.000040	.000220	.000893
25.0	.001411	.000050	.000269	.001081
20.0	. 302497	.000001	.000324	.001292
27.0	.004170	.00007\$	.000586	.001525
28.0	.005605	.000086	.000454	.001777
29.0	.009971	.000101	.000526	.002044
30.0	.014409	.000116	.000602	.002321
31.0	.020017	. 000132	. 300680	.002005
32.0	.026858	.000148	.000759	.002889
22.0	.0348+4	.000164	.000837	.003169
34.0	.044032	.0-0179	.000913	.003442
35.0	054244	.000194	.000987	.003705
		17125 FOR ( 		1HNER (42)
20.0	.000028	.000000	.000003	.000020
21.0	.000072	.000001	.000005	.000027
22.0	. 300170	.000001	.000006	. 0 0 0 0 3 5
23.0	.000371	.000001	.000008	.000046
24.0	.000748	.000001	.000010	.000059
25.0	.001411	.000002	.000013	. 0 0 0 7 4
26.0	.002497	.000002		.000095
27.0	.004170			.000113
28.0	.005605	.000005		.000136
29.0	.009971			.000162
\$0.0	.014409	.000005		.000189
	.020017			.000217
32.0	.026838	.000006	.000046	.000245
22.0	.034864	.000007 .000008		.000274
34.0 35.0	.044032 .054244		.000057	
			- 40 A -	
LOAD			1HHER (35)	[ND4ER(42)
	.000028			.000001
21.0	.000072	.000000		.000001
22.0	.000170	.100000		.000002
23.0	. 000371	.000000		.000002
23.0	. 000748	.000000	. 000000	.000003
25.0	.001411			.000004
	.002497	.000000		.000005
27.0	.004170	.000000		.000006

LOAD	OUTER	INNER (28)	1HNER (35)	INNER(42)
20.0	.000686	.000000	.000005	.000019
21.0	.001395	.000001	.000004	.000026
22.0	.002616	.000001	.000006	.000033
23.0	.004578	.000001	.000007	.000045
24.0	.007514	.000001	.000009	. 000055
25 0	.0116-*	.000001	.000011	.0000.5
26 0	.317149	.000002	.000014	. 0 0 0 0 7 7
27 0	.024128	000002	000010	0000390
28 0	.032606	.000002	.000019	.000104
2 * 0	042527	. 000003	.010021	.000117
50.0	053771	. 000003	.000024	.000131
-		ITIES FOR (		• 8
LOAD				1+41E2(62)
20.0	.000686	.000000	.000000	100000.
21.0	.001393	.000000	. 000000	.000001
22.0	.302616	. 900000	000000	.000001
23 0	.00-578		000000	.000002
24.0	.007514	. 000000	.000000	. 000002
25.0	.017149	.000000	. 330000	. 000003
26 0				.000004
27.0	.024128	.000000	.000001	.000034
28.0	.032606	. 300000	.000001	. 000005
10 0	.042527	.000000.	.000001	.000006
	/ 1			.000007
		TIES FOR C		
				- /
LOAD	OUTER I	NNER (23)	INHER(35)	1NHER (42)
15.0	.000004	.000000	.000000	.000000
15.0	.000004	.000000	. 000000	.000000
15.0 16.0	.000004	.000000	.000000	.000000
15.0 16.0 17.0	.000004 .000015 .000047	.000000 .000000	.000000 .000000 .000000	.000000 .000000 .000000
15.0 1.5.0 17.0 18.0	.000004 .000015 .000047 .000127	.000000 .000000 .000000	.000000 .000000 .000000	.000000 .000000 .000000
15.0 16.0 17.0 18.0 19.0	.000004 .000015 .000047 .000127 .000110	.000000 .000000 .000000 .000000	.000000 .000000 .000000 .000000	.000000 .00000 .000000 .000000
15.0 16.0 17.0 18.0 19.0 20.0	.000004 .000015 .000047 .000127 .000510 .000686	.000000 .000000 .000000 .000000	.000000 .000000 .000000 .000000 .000000	. 00 0000 00 0000 00 0000 . 00 0000 . 00 0000
15.0 16.0 17.0 18.0 19.0 20.0 21.0	.000004 .000015 .000047 .000127 .000510 .000510	.000000 .000000 .000000 .000000 .000000	.000000 .000000 .000000 .000000 .000000 .000000	.000000 .000000 .000000 .000000 .000000 .000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0	.000004 .000015 .000047 .000127 .000510 .000586 .001395 .002416	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000000 .000000 .000000 .000000 .000000 .000000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000
15.0 16.0 17.0 19.0 20.0 21.0 22.0 23.0	.000004 .000015 .000047 .000127 .000110 .000686 .001393 .002616 .004578 .007514 .0116~6	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .004578 .007514 .011449	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 25.0 25.0 25.0 26.0 27.0	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .002516 .007514 .011646 .017149 .024128	. 00000 . 00000	. 00000 . 00000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 25.0 26.0 27.0 28.0	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .052206	. 00000 . 00000	. 00000 . 00000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0	.000004 .000015 .000047 .000127 .000510 .000686 .001593 .002616 .004578 .007514 .011646 .01149 .024128 .052=06 .042527	. 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000000	. 00000 . 000000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0	.000004 .000015 .000047 .000127 .000510 .000684 .001593 .002414 .004578 .007514 .011646 .017169 .024128 .02227 .05271	. 00000 . 00000	. 00000 . 00000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0	.000004 .000015 .000047 .000127 .00010 .000684 .001393 .002416 .004578 .007514 .011646 .017149 .024128 .0224128 .022406 .042527 .053771	. 00000 . 00000	. 00000 . 00000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .004578 .007514 .011646 .017169 .024128 .022106 .042527 .053771	. 00000 . 00000	. 00000 . 00000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .000510 .000686 .001395 .002616 .004578 .007514 .011646 .017149 .024128 .022128 .02227 .055771 PROSABILI	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 00000 . 000000 . 00000000 . 0000000000	. 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0 BLOCKING	.000004 .000015 .000047 .000127 .000510 .00088 .001393 .002616 .004578 .007514 .0116~6 .017149 .024128 .024128 .02527 .055771 PRO8A81L11	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 00000 . 000000 . 0000000 . 00000000 . 0000000000	. 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .004578 .004578 .004578 .004578 .007514 .011646 .017149 .024128 .022406 .042527 .053771 	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	. 00000 . 00000	. 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .022406 .045527 .053771 	.000000 .000000	. 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	. 00000 00000 . 00000 . 00000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 26.0 27.0 28.0 29.0 30.0 BLOCKING LOAD	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .022406 .045527 .053771 	.000000 .000000	. 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 0000000000	. 000000 . 00000 . 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 25.0 24.0 27.0 28.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011456 .017149 .024128 .022406 .042527 .053771 	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000000 . 0000000 . 0000000000	. 000000 . 00000 . 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 29.0 30.0 	.000004 .000015 .000047 .000127 .00010 .000686 .001593 .002616 .002616 .007514 .007514 .011646 .017149 .022428 .022406 .042527 .053771 	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000000 . 0000000 . 000000 . 0000000000	. 00000 . 000000 . 00000 . 00000 . 000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 00000 . 000000 . 00000 . 00000 . 00000 . 00000 . 0000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .000510 .000686 .001395 .002414 .004578 .007514 .011446 .017149 .024128 .022406 .042527 .053771 PROBABILIT OUTER 12 .001411 .002497 .004170 .004605	.000000 .00000 .000000 .000000 .000000 .000000	. 00000 . 000000 . 00000 . 0000 . 00000 . 00000 . 00000 . 00000 . 00000 . 0000000 . 000000	. 000000 . 00000 . 00000 . 00000 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 0000000 . 0000000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 BLOCKING  25.0 24.0 29.0 30.0  29.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011646 .017149 .024128 .024128 .024277 .042527 .053771 PROBABILIS .001411 .002497 .004470 .002497 .004405 .009971	.000000 .00000 .000000 .000000 .000000 .000000	. 00000 . 000000 . 00000 . 0000 . 00000 . 00000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 BLOCKING 	.000004 .000015 .000047 .000127 .00010 .00088 .001393 .002416 .004578 .007514 .011646 .017149 .024128 .024128 .024287 .042527 .053771 PROBABILIS .001411 .002497 .004405 .004405	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000000 . 000000 . 000000 . 000000 . 0000000000	. 000000 . 00000 . 000000 . 00000 . 000000 . 00000000 . 000000000 . 0000000 . 0000000 . 0000000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 29.0 30.0 BLOCKING 	.000004 .000015 .000047 .000127 .000510 .000686 .001393 .002616 .002616 .002616 .002618 .002516 .011646 .017149 .024128 .02206 .042527 .053771 .001411 .002497 .004170 .006951 .014409 .020017	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 00000000 . 0000000 . 0000000000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 0000000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 25.0 29.0 30.0 	.000004 .000015 .000017 .000127 .00010 .000686 .001393 .002616 .002616 .002618 .002518 .002514 .011646 .017149 .024128 .02206 .042527 .053771 .001411 .002497 .004170 .004605 .005971 .014409 .02017 .026838	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 00000000 . 000000 . 000000 . 000000 . 0000000000	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .02206 .04527 .053771 .001411 .002497 .001411 .002497 .004170 .004405 .01469 .01469 .01469 .01469	.000000 .000000	. 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 00000 . 00000 . 000000 . 00000 . 0000	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .022428 .02206 .04527 .053771 .001411 .002497 .001411 .002497 .004170 .004405 .01409 .01409 .01409 .01409	.000000 .000000	. 000000 . 00000 . 000000 . 000000	. 000000 . 00000 . 000000 . 00000 . 0000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 0000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 24.0 27.0 28.0 29.0 30.0 	.000004 .000015 .000047 .000127 .00010 .000686 .001393 .002616 .004578 .007514 .011446 .017149 .024128 .022428 .02206 .04527 .053771 .001411 .002497 .001411 .002497 .004170 .004405 .01409 .01409 .01409 .01409	.000000 .000000	. 000000 . 00000 . 000000 . 00000 . 000000 . 000000	. 000000 . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 0000
15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 25.0 24.0 27.0 28.0 29.0 30.0 BLOCKING  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0  25.0 24.0 29.0 30.0 25.0 24.0 27.0 25.0 24.0 27.0 25.0 24.0 27.0 25.0 24.0 27.0 25.0 24.0 27.0 25.0 24.0 27.0 25.0 24.0 27.0 28.0 29.0 30.0 25.0 27.0 28.0 29.0 30.0 25.0	.000004 .000015 .000017 .000127 .00010 .00068 .001395 .002614 .001395 .002614 .011646 .017149 .022616 .012206 .042527 .055771 PROBABILIS .001411 .002497 .001411 .002497 .001411 .002497 .001411 .002695 .009971 .014609 .026818 .032864 .032642	.000000 .000000	. 00000 . 000000 . 00000 . 0000 . 0000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 0000 . 00000 . 00	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000

BLOCKING PROBABILITIES FOR C + 40 A + 5

28.0	.006605	. 000000	.000001	.000008
29.0	.009971	. 000000	.000001	.000009
30.0	.014409	. 000000	. 000001	.000011
31.0	.020017	.000000	. 000002	.000013
52.0	.026838	.000000	.00002	.000015
52.0	.05-804	.000000	.000002	.000017
34.0	.044032	. 000000	. 000005	.000019
15.0	.05-244	.000000	. 000005	.000021
		ITIES FOR		+ 9
LOAD		INNER(18)		
		000000		. 000000
20 0	.000028	. 0 0 3 0 0 0	. 000000	.000300
22 0	000170	200000	. 300000	. 300350
23.0	303170	.030000	200000	.000000
24 0	.000748	. 200020		. 000000
25.0	.001411	. 000000	. 0 0 0 0 0 0	. 000000
25.0	.002-97	. 0000000	. 000000	. 030000
27.0	.004170	. 000000	. 000000	. 00 0 0 0 0
28.0	.006605	. 300000	.000000	.000000
29 0	.009971	.000000	. 000000	. 000000
30.0	.014409	. 000000	. 000000	. 000000
31.0	.020017	. 000000	. 000000	.000001
32.0	. 026838	.000000	.000000	.000001
13.0	.054864	. 000000	.000000	.000001
34.0	. 044032	.000000	.000000	.000001
35.0	- 054244	. 200000		.000001
BLOCKING	PROBABIL	ITIES FOR	C + 45 A	• 4
LOAD	OUTER	INNER (28)	INNER (35)	1NNER (42)
28.0	.000767	.018550	.044868	.087856
29.0	. 001169	. 320499	. 349061	.094929
30.0	.002320	.022545	. 053353	.102059
51.0	.003744	.024649	.057708	.109188
32.0	.005775	.026772	.0.2084	.116253
33.0	.008546	.029948	.066432	.123186
34.0	. 012171	.031092	.070708	.129921
35.0	.016742	.033198	.074864	.136399
36.0	.022310	.035244	.078863	.142568
37.0	.328890	.037210	.082670	.148586
38.0	.036458	.039080	.086262	.153833
			: + 45 A	
			• •> A	
LOAD			INNER (35)	
				.016105
29.0	.001369	.001881	.006654	.018127
30.0	.002320	.002148		.020256
51.0	.003744	.002432	.008435	. 022474
32.0	.005775	.002752	.009187	.024755
33.0	.008546	.005043	.010366	.027071
34.0	.012171	.003361	.011358	.029395
35.0	.016742	.003481	.012350	.031694
36.0	.022510	.004000	.011328	.033942
\$7.0	.028890	.004313		.036115
38.0	.036458	.004616	.015201	.038192
			+ 45 A I	
LOAD				1 NNER (42)
	.000767			.001871
29.0	.001369	.000110	.000570	.002192

30.0	-002320	. 000130	.000669	.002545
31.0	.003744	.000152	.000776	.002926
32.0	.005775	.000176	146000.	.003231
33.0	.008546	.000202	.001013	.003756
34.0	.012171	.000229	.001140	.004195
35.0	.016742	.000256	. 301270	.004641
36.0	.022310	-	.001401	.005087
37 0	.028890		001532	.005528
38 0	.056458	.000340	.001660	. 005958
		ITIES FOR		
LOAD	JUTER	INNER (18)	INNER (15)	INNER ( 42 )
28.0	. 000767	000004	. 000027	.000148
29 0	.0013+9	. 000004	000054	. 200180
\$0.0	.002320	.000005	.000041	.000216
31.0	.005744	.000007	000049	.000257
32 - 0	.005775	. 000008	.000058	.000302
22.0	.008546	.00009	.000067	.000350
54.0	.012171	.000011	.000077	.000~01
35.0	.016742		.000088	. 300454
36.0	.022510		.000099	.000508
37.0	.028890		. 000110	.000562
18 0	.056458	.003017	000121	.300+1+
BLOCK ING	PROBABIL	ITIES FOR O	+ 45 A	- 8
LOAD		INNER (28)		(HANER (42)
28.0	.000767	.000000	. 000001	.000008
29.0	.001369	.000000	. 000001	.000011
30.0	.002320	.000000	.000002	. 200015
51.0	.003744	.000000	. 000002	.000016
32.0	.005775	. 000000	200000.	.000020
330	.008546	. 0 0 0 0 0 0	. 000003	. 000020 . 000023
33 0 34.0	.008546	.000000	. 000003	. 000020 . 000023 . 000027
33 0 34.0 35.0	.008546 .012171 .016742	.000000 .000000 .000000	. 000003 . 000004 . 000004	. 000020 . 000023 . 000027 . 000031
33 0 34.0 36.0	.008546 .012171 .016742 .022510	.000000 .000000 .000000	. 000003 . 000004 . 000004 . 000005	.000020 .000023 .000027 .000031 .000036
33 0 34.0 35.0	.008546 .012171 .016742	.000000 .000000 .000000	. 000003 . 000004 . 000004	. 000020 . 000023 . 000027 . 000031
330 340 350 360 370	.008546 .012171 .016742 .022510 .028890	.000000 .000000 .000000 .000000	.000003 .000004 .000004 .000005 .000005	.000020 .000023 .000027 .000031 .000036 .000040
220 34.0 35.0 36.0 37.0 28.0	.008546 .012171 .016742 .022310 .028890 .036458	. 0 0 0 0 0 0 . 0 0 0 0 0 0 . 0 0 0 0 0	. 000003 .000004 .000004 .000005 .000006	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045
23 0 34.0 55.0 36.0 37.0 38.0	.008546 .012171 .016742 .022510 .028890 .036458 PROBABLL	.000000 .000000 .000000 .000000 .000001 .000001	. 000003 . 000004 . 000004 . 000005 . 000006 . 000006	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045
23 0 34.0 55.0 36.0 37.0 38.0	.008546 .012171 .016742 .022510 .028890 .036458 PRO8A81L	.000000 .000000 .000000 .000000 .000001 .000001	. 000003 .00004 .00004 .00005 .00006 .00006	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045
23 0 34.0 55.0 36.0 37.0 38.0	.008546 .012171 .016742 .022310 .028890 .036458 PROBABIL	.000000 .000000 .000000 .000000 .000001 .000001	. 000003 .000004 .000004 .000005 .000006 .000006	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045
53 0 34.0 15.0 34.0 37.0 38.0 8LOCX1HG	.008546 .012171 .016742 .022310 .028890 .036458 PROBABIL	.000000 .000000 .000000 .000000 .000001 .000001	. 000003 .000004 .000004 .000005 .000006 .000006	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045
23 0 34.0 55.0 54.0 37.0 38.0 BLOCK1HG 	.008546 .012171 .016742 .022510 .03890 .036458 PROBABIL DUTER .000767 .001369	.000000 .00000 .00000 .00000 .00000 .00000 ITTES FOR C	. 000003 .00004 .00004 .00005 .00006 .00006 .00006 .00006	. 000020 . 000023 . 000027 . 000031 . 000036 . 000045 . 000045 . 9 
33 0 34.0 15.0 37.0 38.0 BLOCX1HG LOAD 28.0 29.0 30.0	.008546 .012171 .016742 .022510 .03890 .036458 PROBABIL DUTER .000767 .001369 .002320	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	. 000003 .00004 .00004 .00005 .00006 .00006 .00006 .00006 .00000 .00000 .00000 .00000	. 000020 . 000023 . 000027 . 000031 . 000036 . 000045 . 000045 . 9 . 1MHER ( 423 . 000000 . 000000 . 000000
33 0 34.0 15.0 37.0 38.0 8LOCX1HG LOAD 28.0 29.0 30.0 31.0	.008546 .012171 .016742 .022510 .03890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	. 000003 .00004 .00004 .00005 .00006 .00006 .00006 .00000 .00000 .00000 .00000 .00000	. 00020 . 00023 . 00027 . 00031 . 00036 . 00040 . 00045 
33 0 34.0 15.0 37.0 38.0 BLOCX1HG LOAD 28.0 29.0 30.0 31.0 52.0	.008546 .012171 .016742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775	.000000 .000000 .000000 .000001 .000001 .000001 .000001 .000000 .000000 .000000 .000000 .000000	. 000003 .00004 .00004 .00006 .00006 .00006 .00006 .00000 .00000 .00000 .00000 .00000 .00000	. 00020 . 00023 . 00027 . 00031 . 00004 . 00040 . 00045 . 000045 . 000000 . 00000 . 00000 . 000001 . 000001 . 000001
25 0 34.0 55.0 56.0 37.0 58.0 9LOCX 1HG 28.0 29.0 30.0 31.0 52.0 53.0	.008546 .012171 .016742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00006 . 00000 . 00000 . 00000 . 00000 . 00000	. 00020 . 00023 . 00027 . 00031 . 00004 . 00040 . 00045 . 9 . 1MMER (423 . 000000 . 00000 . 000001 . 000001 . 000001 . 000001
23 0 34.0 15.0 37.0 38.0 BLOCX1MG COAD 28.0 29.0 30.0 31.0 52.0 53.0 14.0	.008546 .012171 .014742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00004 . 00006 . 00006 . 00006 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 000020 . 000023 . 000027 . 000031 . 000036 . 000040 . 000045 . 9 . 1494ER (423 . 000000 . 000000 . 000001 . 000001 . 000001 . 000001 . 000001
25 0 34.0 55.0 56.0 37.0 58.0 9LOCX 1HG 28.0 29.0 30.0 31.0 52.0 53.0	.008546 .012171 .016742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00006 . 00000 . 00000 . 00000 . 00000 . 00000	. 00020 . 00023 . 00027 . 00031 . 00004 . 00040 . 00045 . 9 . 1MMER (423 . 000000 . 00000 . 000001 . 000001 . 000001 . 000001
23 0 34.0 15.0 37.0 18.0 8LOCK 1HG LOAD 28.0 29.0 30.0 31.0 52.0 53.0 54.0 55.0	.008546 .012171 .014742 .022510 .02890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00006 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 000020 . 000023 . 000027 . 000031 . 000036 . 000040 . 000040 . 000045 . 9 . 1494ER (423 . 000000 . 000000 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001
23 0 34.0 15.0 34.0 37.0 18.0 BLOCK 1MG 28.0 29.0 30.0 31.0 52.0 53.0 24.0 55.0 26.0	.008546 .012171 .014742 .022510 .02890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02310	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00006 . 00000 . 00000	. 000020 . 000023 . 000027 . 000031 . 000036 . 000045 . 000045 . 9 . 1HMER (423 . 000000 . 000001 . 000002 . 000002
33 0 34.0 15.0 36.0 37.0 38.0 BLOCX 1HG 28.0 29.0 30.0 31.0 32.0 31.0 52.0 53.0 55.0 56.0 38.0	.008546 .012171 .016742 .022310 .03890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02310 .026890 .036458	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 300003 . 00004 . 00004 . 00005 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 00000	. 000020 . 000023 . 000027 . 000031 . 000034 . 000040 . 000040 . 000045 . 9 . 1HNER (423 . 000000 . 000001 . 000002 . 000002
23 0 34.0 55.0 56.0 37.0 38.0 9LOCX 1HG 28.0 29.0 30.0 31.0 52.0 53.0 54.0 53.0 54.0 53.0 54.0 33.0 54.0 55.0 55.0 56.0 37.0 38.0	.008546 .012171 .016742 .022310 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .025890 .036458	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00020 . 00023 . 00023 . 000031 . 000034 . 000040 . 000045 . 000045 . 9 . 1HNER (423 . 000000 . 000001 . 000002 . 000002
23 0 34.0 15.0 37.0 38.0 BLOCKING 28.0 29.0 30.0 31.0 52.0 53.0 14.0 55.0 14.0 55.0 26.0 37.0 38.0	.008546 .012171 .014742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .002775 .008546 .012171 .016742 .022310 .026890 .036458 PROBABIL1	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000036 . 000040 . 000040 . 000045 . 9 INALER ( 423 . 000000 . 000001 . 000002 . 000002 . 000002
23 0 34.0 15.0 34.0 37.0 38.0 BLOCKING 28.0 29.0 30.0 31.0 52.0 53.0 24.0 55.0 24.0 33.0 24.0 33.0 25.0 34.0 35.0 26.0 37.0 38.0	.008546 .012171 .014742 .022510 .028890 .036458 PROBABIL DUTER .000767 .001369 .002320 .003744 .002775 .008546 .012171 .016742 .022310 .026890 .036458 PROBABIL1	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 00003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000040 . 000040 . 000045 . 9 INALER ( 423 . 000000 . 000001 . 000002 . 000002 . 000002 . 000002
33 0 34.0 55.0 34.0 37.0 38.0 BLOCK ING 28.0 29.0 30.0 31.0 52.0 53.0 54.0 55.0 56.0 37.0 38.0	.008546 .012171 .014742 .022510 .02890 .036458 PROBA81L DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02510 .025890 .036458 PROBA81L1 DUTER 1	.000000 .00000	. 000003 . 00004 . 00004 . 00004 . 00006 . 00006 . 00006 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000046 . 000040 . 000045 . 10 . 000000 . 000000 . 000001 . 000002 . 000000 . 0000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000000
33 0 34.0 55.0 34.0 37.0 38.0 BLOCK ING 28.0 29.0 30.0 31.0 52.0 53.0 54.0 55.0 56.0 37.0 38.0 29.0 31.0 55.0 56.0 37.0 38.0	.008546 .012171 .014742 .022510 .02890 .036458 PROBA81L DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02510 .025890 .036458 PROBA81L1 DUTER 1	.000000 .00000	. 000003 .00004 .00005 .00006 .00006 .00006 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000020 . 00023 . 000023 . 000031 . 000040 . 000040 . 000045 . 9 INALER ( 423 . 000000 . 000001 . 000002 . 000002 . 000002 . 000002
23.0 34.0 15.0 54.0 37.0 18.0 BLOCK1HG 28.0 29.0 30.0 31.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 37.0 38.0 29.0 38.0	.008546 .012171 .014742 .022510 .02890 .036458 PROBA81L DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02510 .025890 .036458 PROBA81L1 DUTER 1	.000000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00000 . 00000	. 000020 . 000023 . 000023 . 000031 . 000036 . 000045 . 000045 . 9 INRER (423 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000002 . 000001 . 000002 . 000001 . 000002 . 000001 . 000002 . 000001 . 000002 . 000002
33 0 34.0 15.0 34.0 37.0 38.0 BLOCX 1MG 28.0 29.0 30.0 31.0 32.0 31.0 32.0 33.0 24.0 35.0 24.0 35.0 24.0 37.0 38.0 29.0 37.0 38.0 29.0 30.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 32.0 32.0 31.0 32.0 3	.008546 .012171 .014742 .022510 .02890 .036458 PROBA81L DUTER .000767 .001369 .002320 .003744 .005775 .008546 .012171 .016742 .02510 .025890 .036458 PROBA81L1 DUTER 1 .000767	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000003 . 00004 . 00004 . 00005 . 00006 . 00006 . 00000 . 00000	. 000020 . 00023 . 000023 . 000031 . 000034 . 000040 . 000045 . 9 INNER (423 . 000001 . 000002 . 000002 . 000002 . 000000 . 000000
23 0 34.0 15.0 15.0 38.0 9LOCX 1HG 28.0 29.0 30.0 31.0 32.0 31.0 32.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 34.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 30.0 31.0 32.0 30.0 3	.008546 .012171 .016742 .022510 .02890 .036458 PROBA81L .000767 .001369 .002320 .03546 .012171 .016742 .02575 .008546 .012171 .016742 .025890 .036458 PROBA81L1 .00767 .001369 .002520 .005744	.000000 .00000	. 000003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000034 . 000040 . 000040 . 000045 . 9 INNER (423 . 000000 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000002 . 000002 . 000000 . 000000
33 0 34.0 15.0 34.0 37.0 38.0 BLOCK IMG 28.0 29.0 31.0 32.0 31.0 32.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 29.0 36.0 37.0 38.0 29.0 38.0 29.0 38.0 29.0 30.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 35.0 24.0 30.0 31.0 32.0 35.0 24.0 30.0 31.0 32.0 35.0 24.0 30.0 31.0 32.0 35.0 24.0 30.0 30.0 31.0 32.0 30.0 30.0 31.0 30.0 3	.008546 .012171 .016742 .022510 .02890 .036458 PROBABIL OUTER .000767 .001369 .02520 .005744 .02575 .008546 .012171 .016742 .025890 .036458 PROBABIL1 OUTER 1 .000767 .001369 .002520 .005744 .005775	.000000 .00000	. 000003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 0000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000040 . 000040 . 000045 . 9 INALER (423 . 000001 . 000002 . 000002 . 000000 . 000000
23 0 34.0 15.0 15.0 38.0 9LOCX 1HG 28.0 29.0 30.0 31.0 32.0 31.0 32.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 33.0 24.0 34.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 30.0 31.0 32.0 33.0 24.0 30.0 31.0 32.0 33.0 24.0 30.0 30.0 31.0 32.0 30.0 3	.008546 .012171 .016742 .022510 .02890 .036458 PROBA81L .000767 .001369 .002320 .03546 .012171 .016742 .02575 .008546 .012171 .016742 .025890 .036458 PROBA81L1 .00767 .001369 .002520 .005744	.000000 .00000	. 000003 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00004 . 00000 . 000000 . 00000000	. 000020 . 00023 . 000023 . 000031 . 000034 . 000040 . 000040 . 000045 . 9 INNER (423 . 000000 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000002 . 000002 . 000000 . 000000

42.0	. 0 3 0 4 5 1	.000001	.000014	.000095
			C + 50 A	
				• •
LOAD	OUTER	1HHER (28)	INNER (35)	
52.0	. 00 0754		000000	. 0 0 0 0 1
33 0	.001294		000000	.000001
\$4.0	.002121	.000000	.000000	000002
35.0	. 00 5 5 5 3	.000000	.000000	.000002
36.0	005036	.000000	. 000-00	.000005
\$7.0	. 337535	.006600	.000633	.000783
3 at . 0	.010128	. 000000	00000	.000004
39.0	.014095			. 000004
40.0	.018691	.000000	.000000	. 000005
41.0	.024143			.000005
42.0	.030451	.000000	.000001	.00000+
BLOCKING	PROBABIL	ITIES FOR	C + 50 A	- 10
*******				
LOAD		1HHEP (28)	[NNER [ 35 ]	INNER(42)
52.0	. 000 754	. 000000		. 000000
55.0	.001294	.000000	. 200000	. 000000
34.0	. 002121	.000000	.000000	.000000
35.0	. 0 0 3 3 3 3	.000000	.000000	.000000
56.0	.005036	.000000	. 000000	. 000000
\$7.0	.007335	. 000000	.000000	. 000000
58.0	.010328	. 000000	.000000	.000000
39.0	.014095	.000000	.000000	. 000000
40.0	.018691	. 00 00 00	. 0 0 0 0 0 0	. 300000
41.0	.024143	.000000	000000	. 000000
42.0	. 030451	.000000	.000000	. 000000
		ITIES FOP (		• 5
1 0 A D		NOVER (28)	1NHER (35)	
40.0	.000679	.006764	.021187	. 050580
41.0	.001101	.007406	.022966	.054240
42.0	.001722	.008079	.024804	.057970
43.0	.002604	.008776	.026690	.061750
44.0	.003818	.009495	.028613	.065554
45.0	.005434	.010230	.030556	.069356
46.0	.007522			
47.0		.010974	.032505	.073128
	.010146	.011721	. 034443	.076841
	.013356	.011721	.034443 .036355	.076841 .080467
49.0	.013356	.011721 .012465 .013198	.034443 .036355 .038225	. 0 7 68 4 1 . 08 0 4 6 7 . 08 3 98 5
49.0 50.0	.013356 .017190 .021668	.011721 .012465 .013198 .013915	.034443 .036355 .038225 .040039	.076841 .080467 .083985 .087566
49.0 50.0 51.0	.013356 .017190 .021668 .026794	.011721 .012465 .013198 .013915 .014610	.034443 .036355 .038225 .040039	.076841 .080467 .083985 .087566
49.0 50.0 51.0 52.0	.013356 .017190 .021668 .026794 .032554	.011721 .012465 .013198 .013915 .014610 .015280	.034443 .036355 .038225 .040039 .041787 .043-58 .045046	. 076841 . 080467 . 083983 . 087366 . 090599 . 093668
49.0 50.0 51.0 52.0 53.0	.013356 .017190 .021668 .026794 .032554 .038919	.011721 .012465 .013198 .013915 .014610 .015280 .015920	.034443 .036355 .038225 .040039 .041787 .043-58 .045046	. 076841 . 080467 . 083983 . 087366 . 090599 . 09599 . 09568 . 096565
49.0 50.0 51.0 52.0 53.0 54.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .016529	.034443 .036355 .038225 .040039 .041787 .045046	.076341 .080467 .083983 .087366 .090599 .093668 .096565 .099287
49.0 50.0 51.0 52.0 53.0 54.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .016529	.034443 .036355 .038225 .040039 .041787 .043-58 .045046 .046547	.076341 .080467 .083983 .087366 .090599 .093668 .096565 .099287
49.0 50.0 51.0 52.0 53.0 54.0 55.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294	.011721 .012465 .015198 .015915 .014610 .015280 .015920 .016529 .017104	.034443 .036355 .038225 .040039 .041787 .041787 .045046 .045647 .047959	.076341 .080467 .083983 .087366 .090599 .095565 .096565 .099287 .101831
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCK1HG	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294	.011721 .012465 .013198 .013915 .014410 .015280 .015920 .014529 .017104 TIES FOR C	.034443 .036355 .038225 .040039 .041787 .041787 .045046 .046547 .047959	.076341 .080467 .083983 .087566 .090599 .095568 .096565 .099287 .101831
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCK1HG	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABIL1	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104	.034443 .036355 .038225 .040039 .041787 .045487 .045546 .046547 .047959	. 07 63 41 . 08 0 4 67 . 08 3 98 5 . 08 7 56 6 . 09 05 99 . 09 55 68 . 09 65 65 . 09 92 87 . 10 18 3 1
49.0 50.0 51.0 52.0 55.0 54.0 55.0 BLOCKING	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .055294 PROBABIL1 OUTER I	.011721 .012465 .013198 .013915 .014410 .015280 .015220 .015220 .016529 .017104 TIES FOR C	.034443 .036355 .038225 .040039 .041787 .043-58 .045046 .046547 .045547 .047959	. 07 68 4 1 . 08 0 4 67 . 08 3 98 5 . 08 7 5 6 6 . 03 05 9 9 . 03 5 5 6 68 . 09 65 6 5 . 09 9 28 7 . 10 18 3 1
49.0 50.0 51.0 52.0 55.0 54.0 55.0 BLOCKING	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABIL1 OUTER I	.011721 .012465 .013198 .013915 .014410 .015280 .015220 .015220 .016529 .017104 TIES FOR C	.034443 .036355 .038225 .040039 .041787 .043-58 .045046 .046547 .046547 .047959	. 07 63 41 . 08 0 4 67 . 08 3 98 5 . 08 7 56 6 . 09 05 99 . 09 55 68 . 09 65 65 . 09 92 87 . 10 18 3 1
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCK1HG COAD	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABIL1 OUTER I .000679	.011721 .012465 .013198 .013915 .014410 .015280 .015280 .01529 .017104 TTES FOR C	.034443 .036355 .038225 .040039 .041787 .04547 .04546 .046547 .047959 .047959 .047959 .047959	. 07 68 4 1 . 08 0 4 6 7 . 08 3 98 5 . 08 7 5 6 6 . 0 3 0 5 9 9 . 0 3 5 5 6 8 . 0 9 6 5 6 5 . 0 9 9 2 8 7 . 1 0 1 8 5 1
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCK1HG COAD 40.0 41.0 42.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .00101 .001722	.011721 .012465 .013198 .013915 .014410 .015280 .015280 .01529 .017104 TTES FOR C	.034443 .036355 .038225 .04039 .041787 .04547 .04547 .046547 .047959 .047959 .047959 .047959 .047959	. 07 68 4 1 . 08 0 4 67 . 08 3 98 5 . 08 7 5 6 6 . 0 9 0 5 9 9 . 0 9 5 5 6 8 . 0 9 6 5 6 5 . 0 9 9 28 7 . 10 18 5 1 
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCK1HG COAD 40.0 41.0 42.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABIL1 CUTER [ .000679 .001101 .001722	.011721 .012465 .013198 .013915 .014410 .015280 .015280 .01529 .017104 TIES FOR C .017104	.034443 .036355 .038225 .04039 .041787 .04548 .04564 .046547 .047959 .04504 .04547 .04547 .04547 .04547 .04547 .04557 .045757 .04557 .04557 .04557 .04557 .04557 .04557 .04557 .04557 .04557 .045577 .045577 .045577 .0455777 .045577777777777777777777777777777777777	. 07 68 41 . 08 0 4 67 . 08 3 98 3 . 08 7 5 66 . 09 05 99 . 09 5 5 68 . 09 65 65 . 09 28 7 . 10 18 31 . 10 18 31 . 10 18 7 . 00 91 47 . 01 01 0 5
49.0 50.0 51.0 52.0 53.0 54.0 55.0 BLOCKING COAD 40.0 41.0 42.0 43.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .001672 .002604 .003818	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104 TIES FOR C 	.034443 .036355 .018225 .04039 .041787 .041787 .041787 .047959 .045046 .046547 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .047959 .04505 .04505 .04505 .04505 .04505 .04505 .04505 .04505 .04505 .04505 .04555 .04555 .04505 .045555 .045555 .045555 .045555 .045555 .045555 .045555 .045555 .045555 .045555 .0455555 .0455555 .0455555 .0455555555 .045555555555	.076341 .080+67 .083983 .087566 .090599 .095868 .096565 .099287 .101831 
49.0 50.0 51.0 52.0 55.0 54.0 55.0 BLOCKING 40.0 41.0 42.0 43.0 44.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .001672 .002604 .003818	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104 TIES FOR C 	.034443 .036355 .018225 .040039 .041787 .041787 .041787 .041787 .047359 .046547 .047359 .046547 .047359 .0467359 .047359 .047359 .047359 .047359 .002493 .002493 .002493 .003055 .003137 .00487 .004054	.076341 .080+67 .083983 .087566 .090599 .095565 .099587 .101831 
49.0 50.0 51.0 52.0 55.0 BLOCKING 	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .00101 .001722 .002604 .003818 .005534 .007522	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104 TIES FOR C .017104 TIES FOR C .000579 .000652 .000730 .000814 .000902 .000994 .001089	.034443 .036355 .038225 .04039 .041787 .041787 .04546 .046547 .046547 .047959 * 60 A * .046547 .047959 * 60 A * .046547 .046547 .046547 .046547 .002693 .003317 .002693 .00354 .00487 .004823	.076341 .080-67 .083983 .087566 .090599 .095665 .099287 .101831 
49.0 50.0 51.0 52.0 55.0 55.0 BLOCXING 40.0 41.0 43.0 44.0 45.0 44.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .00101 .001722 .002604 .003818 .005534 .007522	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104 TIES FOR C .017104 TIES FOR C .000579 .000652 .000914 .000924 .000189 .001187	.034443 .036355 .038225 .04039 .041787 .04534 .045046 .046547 .046547 .047959 .046547 .047959 .047959 .047959 .004654 .004654 .00487 .004823 .004823 .004823 .004823 .004823	.076341 .080-67 .083983 .087566 .090599 .095565 .099287 .101831 
49.0 50.0 51.0 52.0 55.0 BLOCKING BLOCKING 40.0 41.0 42.0 43.0 44.0 45.0 45.0 45.0 45.0	.013356 .017190 .021668 .026794 .032554 .038919 .045849 .053294 PROBABILI OUTER I .000679 .00101 .001722 .002604 .003818 .005534 .007522	.011721 .012465 .013198 .013915 .014610 .015280 .015920 .015920 .014529 .017104 TIES FOR C .017104 TIES FOR C .000579 .000652 .000914 .000924 .000189 .001187	.034443 .036355 .038225 .04039 .041787 .04534 .045046 .046547 .046547 .047959 .046547 .047959 .047959 .047959 .004654 .004654 .00487 .004823 .004823 .004823 .004823 .004823	.076341 .080-67 .083983 .087566 .090599 .095665 .099287 .101831 

34.0	.012171	. 000000	.000000	.000000
\$5.0	.016742	. 000000	.000000	.000000
36.0	.022310	.000000	. 000000	. 0 0 0 0 0 0
\$7.0	.028890	.000000	. 000 000	. 000000
18.0	.036458		. 000000	. 000000
BLOCKIN	G PROBABIL	ITIES FOR	C + 50 A	• 5
LCAD	OUTER	(NER(28)	1101ER (35)	1H04ER(42)
32.0	.000754	.002923	. 0096-9	.025312
11.0	.00.294	. 303183	.0107.5	.027915
14 0	.002121	.0035+5	.011940	.020414
35 0	.005333	.001969	013165	.031402
36.0	.005036	.004391	.014430	.03+238
37.0	.007315	.004926	015720	.039099
18 J	.010528	.005269	017023	.041955
59.0	.014095	.005714	.018322	.044775
÷0.0	.018691	.00+158	.019+04	.047530
41 0	.024145	.006594	.020855	.050196
42.0	.030-51	.007018	.022064	.052751
BLOCKIN	G PROBABILI	TIES FOR C	• 50 A	+ 6
LOAD	OUTER 1	NHER (28)	INNER(35)	1H#ÆR (42)
32.0	.000754	.000186	.000954	.003465
55.0	.001294	.000217	.001078	.003962
\$4.0	.002121	.000250	.001236	.004497
35.0	.003333	.000287	.001406	.005067
36.0	. 005036	.000326	.001587	.005667
37.0	.007335	802000.	.001776	.006290
18.0	.010328	.000411	.001972	.006929
29.0	.014095	.000456	.002172	.007576
40.0	.018691	.000501	.002374	.008223
41.0	.024143	.000545	.002575	.008862
42.0	.030451	.000591	.002772	.009487
BLOCKING	PRC8A81L1			
LOAD				INNER (42)
52.0 53.0	.000754	800000	.000062	.000321
	.001294	.000010	.000087	.000380
34.0				
35.0 36.0	.002036		.000102	.000518
30.0				.000+78
38.0	.007335		.000136	.0007.5
39.0				.000855
40.0			. 000193	. 000947
41.0				.001040
42.0			.000232	.001131
42.0				
	PROBABILIT			
LOAD	OUTER IN	NER(28)	NUER (35)	INNER (42)
32.0	.000754	.000000	. 000003	.000021
53.0	.001294		.000004	.000026
	.002121			. 0 0 0 0 3 2
	. 003333			.000018
			.000006	.000045
				.000052
				.000060
				.000068
	.018.91			.000077
			. 000013	.000086

49.0	.017190	.001384	.006015	.018891
50.0	.0216+8	.001483	.006406	.019992
51.0	.026794	.001579	.006790	.021062
52.0	.032554	.001674	.007161	.022094
53.0	.018919	.001765	. 037520	.023082
54.0	.045849	.001853	.0078+3	.024023
55.0	.051294	.001937	.008189	.024913
SLOCK1H	G PRCB∴8(L	ITIES FOR	C + 60 A	• 7
1020	OUTER	INNER(28)	INNER (35)	144ER (42)
40.D	.000079	.000034	.000232	.001115
41.0	.001101	.000039	.0002+6	.001267
42.0	.001722	.000045	.000303	.001432
43.0	002:04	.000052		.001609
	.001918	. 000058		001797
45.0	005434	.000006		.001994
46.0	.007522	.000073	.000480	.002199
47.0	.010146	. 000081	.000529	.002409
48 0	.012356	.000090	.000580	.002523
49.0	.017190	. 300098	.000651	.002818
50-0	.021468	.00010.	.000682	.003052
51.0	. 02 . 7 94	000115	.000733	.003264
52.0	.032554	.000123	.000783	.003470
53.0	.038919	.000131	.000852	.003671
54.0	.045849	.000139	.000879	.003864
55.0	.053294	.000147	.000924	.0040~9
	PROBABILI			• 8
LCAD		NOVER (28)	1NNER (35)	
40.0	.000679	.000001	.000014	.000097
41.0	.001101	.000002	.000017	.000113
42.0	.001722	.000002	.000020	.000131
43.0	.002004	.000002	. 000023	.000151
44.0	.003818	.000003	.000026	.000173
45.0	.005434	.000003	.000030	.000196
46.0	.007522	.000004	.000034	.000220
47.0	.010146	.000004	.000038	.000246
48.0	.013356	.000005	.000043	.000272
69.0	.017190	.000005	.000047	.000299
50.0	.021668	.000005	.000052	.000327
51.0	.026794	.000006	.000056	.000354
52.0	.032554	.000006	.000061	.000181
		.000007	.000065	.000407
54.0	.045849	.000007	.000069	.000433
55.0	. 053294	.000008	.000073	.000458
	PROBABILI			
LOAD	OUTER 1	NHER (28)	1NNER(35)	1NNER (42)
40.0	.000679	.000000	.000001	.000006
41.0	.001101	.000000	.000001	.000008
42.0	.001722	.000000	.000001	.000009
43.0	.002604	.000000	.00001	.000011
44.0	.003818	.000000	.000001	.000012
45.0	.005434	.000000	.000002	.000014
46.0	.007522	.000000	.000002	.000016
47.0	.010146	.000000	.000002	.000019
48.0		.000000	.000002	.000021
49.0	.017190	.000000	.000003	.000023
50.0	.021668	.000000		.000026
51.0	.026794	. 000000	. 000003	.000028
	.032554	. 000000		. 000031
53.0 54.0	.058919	.000000	.000004	.000035
34.0				.000010

55.0 .053294 .000000 .000004 .000038

BLOCKING	PROBABIL	ITIES FOR	C + 40 A	- 10
			1HHER (35)	
LOAD				
40.0	.000679			000000
41.0	.001101		.000000	.000000
42.0	.001722	000000	.000000	.000000
43.0	.302604	.000000	. 000000	.00001
44.0	.003818	.000700.	. : 0 0 0 0 0	.003031
45.0	.005434	.000030	. 000000	.000001
46.0	.037522	. 000000	. 000000	.000001
47.0	.010140		.000000	. 000031
			.000000	. 000001
48.0	.015356			
49.0	017190		.000000	. 000001
50.0	.021668	. 000000		.000002
51.0	.626794	.000000	. 000000	.000002
52.0	.032554	.000000	.000000	.000002
53.0	.038919	.000000	. 000000	.000002
54.0	.0458%9	.000000	.000000	.000002
55.0	.053294	. 000000	. 00 0 0 0 0 0	.000002
		ITIES FOR (		• []
LOAD				1HHER (42)
40.0	.000679	. 000000	. 0 0 0 0 0 0	.000000
41.0	.001101	.000000	. 00 00 00	. 000000
42.0	.001722	. 000000	. 000000	
43.0	.002604		. 000000	. 000000
44.0	.003818		.000000	.000000
45.0	.005434	.000000	.000000	.000000
46.0	.007522	.000000	. 000000	.000000
47.0	.010146	.000000	.000000	.000000
48.0	.013356	.000000	.000000	.000000
49.0	.017190	.000000		.000000
50.0	.021668	.000300.	.000000	. 000000
51.0	.026794	. 300000	.000000	.000000
52.0	.032554	. 000000	. 000000	. 000000
		.000000	.000000	. 3 0 0 0 0 0
53.0	.038919			
54.0	.045849	.000000	.000000	.000000
55.0	.053294	.000000	.000000	.000000
BLOCKING	PROBABIL	ITIES FOR C	• 70 A •	5
LOAD	OUTER	INNER (28)	1NNER (35)	1NHER (42)
50.0	.001368	.015217	.043014	.092368
\$1.0	.002016	.016257		.096856
52.0	.002895	.017318		.:01339
				.105795
53.0	.004054	.018397		
54.0	.005545	.019485		.110199
55.0	.007417	.020575	. 055699	.114528
56.0	.009714	.021660		.118757
57.0	.012474	.022733	.060639	.1228+5
58.0	.015723	.023785	.063019	.126831
59.0	.019478	.024811	.065321	.130639
60.0	.023744	.025805		.134274
	.028517	.026761		.137728
		.027677		.140994
	.033779			
	.039506	.028550		.144068
	.045668	.029378		.146953
65.0	.052227	.030160	.077072	.149651
BLOCKING	PROBABILI	TIES FOR C	+ 70 A +	6

55.0	.007417	.000001	.000007	.000063
56.0	.009714	. 000001	.000008	.000070
\$7.0	.012474	.000001	.000009	.000077
58.0	.015723	.000001	.000010	.000084
59.0	.019478	.000001	.000011	.000092
60.0	.023744	. 000001	.000012	.000099
61.0	.028517	.000001	.000013	.000106
62.0	.033779	. 00000;	.000014	.000113
65.0	.039506	.000001	.000015	.000121
64.0	.045008	.000001	.000016	. 000127
65 0				
65 U	.052227	.000001	.000017	.003134
BLOCKING	FROSASIL	ITLES FOR	C = 70 A	+ 10
LOAD	OUTER	INNER (28)	INNER (35)	1NNER (42)
50.0	.001368	.000000	000000	.000002
51.0	.002016	.000000	. 300000	.000033
52.0	.002895	.000000	.000000	.000003
53.0	.004054	. 000000	. 0 0 0 0 0 0	.000003
54.0	.0055-5	.000000	.000000	.000004
55.0	.007417	. 000000	. 000000	.000004
56.0	.009714	.000000	.000000	. 000005
57.0	.012474	. 000000		.000006
58.0	.015723	. 000000	. 000001	. 300006
59.0	.019478	.06 000	.000001	.000007
÷0.0	.023744	.000000	. 000001	. 00 0 0 7
61.0	.028517	. 000000	.000001	.000008
62.0	.033779	.000000	.000001	.000009
63.0	.019506	.000000	.000001	.000009
64.0	.045668	.000000	.000001	.000010
65.0	.052227	.000000	.000001	.000010
	PROBABILI	TIES 500 (		+ 11
LOAO	OUTER I	HNER (28)	[44ER (35)	INNER (42)
LOAO 50.0	OUTER I	NNER (28)	[H44ER (35)	INNER (42)
LOAO 50.0 51.0	OUTER I .001368 .002016	NNER (28)	[ 444ER ( 35 ) .0000000 .000000	IMNER (42)
50.0 51.0 52.0	OUTER I .001568 .002016 .002895	HNER (28)	.000000 .000000	INNER(42) .000000 .000000 .000000
LOAO 50.0 51.0 52.0 53.0	OUTER I .001368 .002016 .002895 .004054	HNER (28)	[+2+ER(35) .000000 .000000 .000000	INNER (42)
S0.0 S1.0 S2.0 S3.0 S4.0	OUTER I .001368 .002016 .002895 .004054 .005545	HNER (28)	[ 404ER ( 35 ) .000000 .000000 .000000 .000000 .000000	IMNER (42)
LOAO 50.0 51.0 52.0 53.0	OUTER I .001368 .002016 .002895 .004054	HNER (28)	[+2+ER(35) .000000 .000000 .000000	INNER (42)
S0.0 S1.0 S2.0 S3.0 S4.0	OUTER I .001368 .002016 .002895 .004054 .005545	NNER (28)	[ 404ER ( 35 ) .000000 .000000 .000000 .000000 .000000	IMNER (42)
S0.0 S1.0 S2.0 S3.0 S4.0 S5.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417	NNER (28)	.00000 .00000 .00000 .00000 .00000 .00000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S5.0 S6.0 S7.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417 .009714 .012474	NNER (28)	.00000 .00000 .00000 .00000 .00000 .00000 .00000	IMNER (42)
50.0 51.0 52.0 53.0 54.0 55.0 56.0 56.0 57.0 58.0	OUTER I .001368 .002016 .002895 .004054 .005545 .00714 .012474 .012474 .015723	NNER (28)	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	IMNER(42)
LOAO 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 57.0 58.0 57.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .007714 .012474 .012474 .015723 .019478	NNER (28)		IMNER(42)
LOAO 50.0 51.0 52.0 53.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417 .009714 .01274 .015723 .019478 .023744	NNER (28)	. 00000 . 00000	IMNER(42)
LOAO 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015723 .019478 .023744 .028517	HNER (28)	[ +0+€R ( 35 ) . 00000 . 00000	IMNER(42)
LOAO 50.0 51.0 52.0 53.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417 .009714 .01274 .015723 .019478 .023744	NNER (28)	[ +0+€R ( 35 ) . 00000 . 00000	IMNER(42)
LOAO 50.0 51.0 52.0 53.0 54.0 55.0 54.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015723 .019478 .023744 .028517	HNER (28)	[ +0+€R ( 35 ) . 00000 . 00000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S6.0 S7.0 S8.0 S9.0 60.0 61.0 82.0 63.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015723 .019478 .023744 .028517 .033779	HNER (28)	[ +0+€R ( 35 ) . 00000 . 00000	IMNER(42)
LOAO 50.0 51.0 52.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002016 .002895 .004054 .005545 .00714 .012474 .012474 .015723 .019478 .023744 .028517 .033779 .039506 .0456+8	NNER (28)	[ ₩2₩€ R ( 35 ) . 00000 . 00000	IMNER (42)
LOAO S0.0 S1.0 S2.0 S4.0 S5.0 S4.0 S5.0 S	OUTER I .001368 .002016 .002895 .004054 .005545 .00714 .012474 .012474 .012474 .012474 .012474 .023744 .028517 .033506 .0456+8 .052227	NNER (28)	I • • • € R ( 35 ) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 0000000 . 0000000000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S6.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S4.0 60.0 61.0 60.0 61.0 61.0 62.0 63.0 64.0 65.0 64.0 65.0	OUTER I .001368 .002014 .002895 .004054 .005545 .00714 .012474 .012474 .015723 .019478 .023744 .028517 .039504 .045668 .052227	NNER (28)	I • • • € R ( 35 ) . 00000 . 00000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S4.0 S6.0 S6.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S6.0 S7.0 S7.0 S8.0 S7.0 S6.0 S7.0 S8.0 S7.0 S7.0 S8.0 S7.0 S	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .012474 .012474 .015723 .019478 .023744 .028517 .039504 .045648 .052227	NNER (28)	I • • • € R (35) . 00000 . 00000	IMNER(42)
LOAD S0.0 S1.0 S2.0 S4.0 S	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .012474 .015723 .019478 .023744 .028517 .033779 .039506 .045668 .052227	HNER (28)	I 404€R (35) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42)
LOAD S0.0 S1.0 S2.0 S4.0 S	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .012474 .015723 .019478 .023744 .028517 .033779 .039506 .045668 .052227	HNER (28)	I 404€R (35) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER(42)
LOAD S0.0 S1.0 S2.0 S4.0 S	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .012474 .015723 .019478 .023744 .028517 .033779 .039506 .045668 .052227 PRO8481L11	HNER (28)	I 404€R (35) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42)
LOAO 50.0 51.0 52.0 54.0 55.0 54.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015723 .019478 .023744 .028517 .039506 .045668 .052227 PRO8481L1 OUTER 10	NNER (28) .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .00000000	[ \+0+€R ( 35 ) . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 00000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42)
LOAO 50.0 51.0 52.0 54.0 55.0 54.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0	OUTER I .001368 .002016 .002895 .004054 .005545 .007117 .009714 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .019478 .023744 .028517 .033779 .039506 .0456+8 .052227 PRO8481L17 OUTER 1)	NNER (28) .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .00000000	[ \+0+€R ( 35 ) . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 00000000 . 000000 . 000000 . 000000 . 0000000000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0	OUTER I .001368 .002016 .002016 .002895 .004054 .005545 .00714 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .028517 .028517 .033756 .045668 .052227 PRO8A81L11 OUTER 11 .002199	NNER (28) .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .00000000	I NONER (35) . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 000000 . 0000000000	IMNER(42)
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0	OUTER I .001368 .002014 .002895 .004054 .00545 .00714 .012474 .012474 .012474 .012474 .012474 .028517 .023744 .028517 .033506 .045668 .052227 PROBABIL I OUTER I .032199 .003043	NHER (28)           .000000	I Non-ER (35) . 000000 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42) .000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .0000000 .00000000
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S6.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S5.0	OUTER I .001368 .002014 .002895 .004054 .005545 .00714 .012474 .012474 .012474 .012474 .012474 .012474 .023744 .023174 .039506 .045668 .052227 PROBABIL I OUTER I .032199 .03243 .004126	NHER (28)         .000000         <	I Har-ER (35) . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	IMNER(42) .000000 .00000 .0000000 .0000000 .0000000 .0000000 .00000000
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S4.0 S7.0 S8.0 S7.0 S0.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .007714 .012474 .012474 .012474 .012474 .015723 .019478 .023744 .028517 .039504 .045668 .052227 PROBABIL I OUTER I .032199 .033043 .004126 .005485	NHER (28)         .000000         <	I Har-ER (35) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42) .000000 .00000 .0000000 .0000000 .0000000 .00000000
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S6.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S7.0 S8.0 S5.0	OUTER I .001368 .002014 .002895 .004054 .005545 .00714 .012474 .012474 .012474 .012474 .012474 .012474 .023744 .023517 .039506 .045668 .052227 PROBABIL I OUTER I .032199 .032643 .004126	NNER (28)           .000000           <	I H0HER (35) . 000000 . 00000 . 00000 . 000000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000000	IMNER (42) . 300000 . 00000 . 00000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 0
LOAO S0.0 S1.0 S2.0 S4.0 S4.0 S4.0 S7.0 S8.0 S7.0 S0.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .007714 .012474 .012474 .012474 .012474 .015723 .019478 .023744 .028517 .039504 .045668 .052227 PROBABIL I OUTER I .032199 .033043 .004126 .005485	NHER (28)         .000000         <	I Har-ER (35) . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42) .000000 .00000 .0000000 .0000000 .0000000 .00000000
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S4.0 S7.0 S8.0 S7.0 S0.0	OUTER I .001368 .002014 .002895 .004054 .005545 .007417 .007714 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .012474 .023744 .028517 .037504 .045668 .052227 PRO8481L11 OUTER 1) .032199 .033043 .004126 .005485 .007158	NNER (28)           .000000           <	I H0HER (35) . 000000 . 00000 . 00000 . 000000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000000	IMNER (42) . 300000 . 00000 . 00000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 0
LOAO 50.0 51.0 52.0 54.0 54.0 55.0 54.0 55.0 54.0 57.0 58.0 57.0 52.0 52.0 52.0 53.0 60.0 61.0 62.0 65.0 55.0 55.0 52.0 61.0 62.0 63.0 64.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 60.0 65.0 60.0 65.0 60.0 65.0 60.0 65.0 60.0 65.0 60.0 65.0 60.0 65.0 60.0	OUTER I .001368 .002016 .002895 .004054 .00545 .007417 .009714 .012474 .012474 .012474 .015723 .019478 .023744 .028517 .039506 .045668 .052227 PROBABILI OUTER I .032199 .032199 .03243 .004126 .005485 .009176 .011570	MNER (28) .000000 .000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000000 .000000 .00000000	I NANER (35) . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 0000000000	IMNER (42) . 300000 . 00000 . 00000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 0
LOAO S0.0 S1.0 S2.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0	OUTER I .001368 .002016 .002015 .004054 .005545 .007417 .009714 .012474 .012474 .012474 .012474 .012474 .012474 .02517 .039704 .039506 .0456.8 .052227 PROBABILIT OUTER I .032139 .03943 .004126 .005485 .009178 .009178 .009176 .011570 .014358	NNER (28)           .000000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .00000           .0000000           .0000000	I HAHER (35) . 00000 . 000000 . 00000 . 000000 . 00000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER (42) . 300000 . 00000 . 00000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 0
LOAO S0.0 S1.0 S2.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S	OUTER I .001368 .002014 .002014 .002895 .004054 .00545 .00714 .012474 .012474 .012474 .012474 .012474 .023744 .028517 .033756 .045648 .052227 PRO8481L11 OUTER 10 .032199 .03243 .004126 .005485 .007158 .009176 .014558	NNER (28)           .0000000	INDER (35) . 00000 . 000000 . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER(42) .000000 .00000 .0
LOAO S0.0 S1.0 S2.0 S3.0 S4.0 S5.0 S6.0 S7.0 S8.0 S7.0 S0.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S3.0 S4.0 S7.0 S4.0 S7.0	OUTER I .001368 .002014 .002895 .004054 .00545 .00714 .012474 .012474 .012474 .012474 .028517 .023744 .028517 .039506 .045668 .052227 PROBABIL I OUTER I .032199 .03943 .004126 .00545 .007158 .007158 .017557 .021172	NNER (28)           .0000000           .0000000	INDER(35) .000000 .00000 .00000 .00000 .000000 .000000 .000000 .00000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .000000 .0000000 .000000 .000000 .0000000 .00000000	IMNER(42) .000000 .000000 .0000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000
LOAO S0.0 S1.0 S2.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S4.0 S5.0 S	OUTER I .001368 .002014 .002014 .002895 .004054 .00545 .00714 .012474 .012474 .012474 .012474 .012474 .023744 .028517 .033756 .045648 .052227 PRO8481L11 OUTER 10 .032199 .03243 .004126 .005485 .007158 .009176 .014558	NNER (28)           .0000000	INDER (35) . 00000 . 000000 . 00000 . 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	IMNER(42) .000000 .00000 .0

50.0	.0013+8	.001703	. 207205	.022015
\$1.0	.002016	.001860	.007805	.023619
52.0	.002895	.002024	.008425	.025262
53.0	.004054	.002194	.009062	.026931
54.0	.005545	.002370	.009712	.028617
55.0	.007417	.002549	.010370	.010109
50 0	.009714	. 00 2 7 3 0	.011031	.031992
57.0	.012~7~	.002911	.011690	.033657
58 Q	015723	. 201093	. 012342	.015291
59.0	019-78	.001272	.012982	.036584
60.0	0237-4	. 203447	.013407	.018428
el.0	028517	.003+19	.014213	.039913
0 2 0	033779	.003784	.014796	.04:33*
53.0	.039506	.003944	.015355	.042691
64.3	. 045568	.004097	.015988	.043977
65.J	. 552227	.004243	. 01 + 5 9 4	.0~5192
8LOCKING	PROSABILI	ITIES FOR I	C = 70 A	• 7
L040				INNER (42)
50.0	.001368	.000129	.000811	.003543
51.0	.002016	.000144	. 0008 98	.001890
52.0	.002895	.000160	.000990	.004253
53.0	. 004054	.000177	.001087	. 00 21
50	.035545	.000194	.001187	.005020
55.0	.007417	.000213	.001290	.005418
56.0	.009714	.000251	.001396	.005821
57.0	.012474	.000250	.001503	.006227
58.0	.015723	.000270	.001610	.006631
59.0	.019478	.000289	.001717	.007031
60.0	. 023744	.000308	.001822	.007424
61.0	.028517	.000327	.001926	.007807
62.0	. 0 3 3 7 7 9	.000345	.002026	.008179
65.0	.019506	.000363	. 002124	.008536
64.0	.045558	.000363	.002124 .002218	.008879
		.000363	. 002124	
64.0	.045558	.000363	.002124 .002218	.008879
64.0 65.0	.045368	.000363 .000280 .000397	.002124 .002218 .002307	.008879 .009206
64.0 65.0 8LOCK1NG	.045558 .052227 PROBABIL1	.000363 .000180 .000397 TIES FOR C	.002124 .002218 .002307	.008879 .009206 • 8
64.0 65.0  8LOCK1NG	.045558 .052227 PROBABIL1	.000363 .000280 .000397 TIES FOR C	.002124 .002218 .002307	.008879 .009206 • 8
64.0 65.0 8LOCK1NG LCAD	.045558 .052227 PROBABIL1 OUTER 1	.000363 .000280 .000397 TIES FOR C	.002124 .002218 .002307 	.008879 .009206 • 8
64.0 65.0 8LOCKING LOAD	.045568 .052227 PROBABIL1 OUTER 1	.000363 .000280 .000297 TIES FOR C	.002124 .002218 .002307 	.008879 .009206 • Ø 1 NoviER (42)
64.0 65.0 8LOCK1NG LOAD 50.0	.045558 .052227 PROBABIL1 OUTER 1 .001368	.000363 .000280 .300397 TIES FOR C	.002124 .002218 .002307 - 70 A INNER(353	.008879 .009206 • 8 ]NHER(42) .000404
64.0 65.0 8LOCK1NG LOAD 50.0 51.0	.045558 .052227 PROBABILI OUTER 1 .001368 002016	.000363 .000280 .000397 TIES FOR C NMER(28)	.002124 .002218 .002307 - 70 A INNER(25) .000065 .000074	.008879 .009206 • Ø INNER(42) .000404 .000453
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895	.000363 .000280 .300397 TIES FOR C NOVER(28) .000007 .000007 .000008	.002124 .002218 .002507 - 70 A INNER(253 .000045 .000045 .000085	.008879 .009206 .009206 .000404 .000404 .000453 .000555
64.0 65.0 ■LOCKING LOAD 50.0 51.0 52.0 53.0	.045558 .052227 PROBABIL1 OUTER 1 .001368 .002016 .002895 .004054	.000363 .000280 .000397 TIES FOR C 	.002124 .002218 .002307 -70 A INMER(25) .000065 .000074 .000085 .000095	.008879 .009206 • 8 
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895 .004054 .005545	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000008 .000009 .000010	.002124 .002218 .002307 	.008879 .009206 • 8 .hevER(42) .000404 .000453 .000453 .00055 .0005. .000520
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895 .004054 .005545 .007417	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000007 .000008 .000009 .000010 .000011 .000013	.002124 .002218 .002307 .002307 .000065 .000074 .000085 .000075 .000073 .00013	.008879 .009206 • 6 NovER(42) .000404 .000453 .000453 .00055 .0005+ .00050 .000620 .000681
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895 .004054 .005545 .007417 .009714	.000363 .000280 .000397 TIES FOR C .000007 .000007 .000008 .000010 .000011 .000013 .000014	.002124 .002218 .002307 	.008879 .009206 • 6 • 1004ER(42) .000404 .000453 .00055 .0005+ .00050 .000581 .00053
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002835 .004054 .005545 .007417 .009714 .012474	.000363 .000280 .000397 TIES FOR C NOMER(28) .000007 .000007 .000007 .000007 .000010 .000010 .000011 .000013 .000014 .000015	.002124 .002218 .002307 	.008879 .009206 • 6 NovER(42) .000404 .000453 .000453 .00055 .0005+ .00050 .000620 .000681
64.0 65.0 	.045558 .052227 PROBABIL1 OUTER 1 .001368 002016 .002895 .004054 .005545 .004054 .007417 .009714 .012474 .015723	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000008 .000009 .000010 .000011 .000014 .000015 .000017	.002124 .002218 .002307 	.008879 .009206 • 6 • 1004ER(42) .000404 .000453 .00055 .0005+, .00050 .000581 .000745 .000807
64.0 65.0 8LOCK1NG LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 55.0 55.0 55.0 55	.045558 .052227 PROBABIL1 OUTER 1 .001368 .002016 .002895 .004054 .005545 .004054 .005545 .007417 .009714 .015723 .019478 .025744	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000007 .000010 .000011 .000013 .000015 .000017 .000018 .000018	.002124 .002218 .002307 -70 A -70 A	.008879 .009206 • 6 1NHER(42) .000404 .000453 .00055 .00055 .00055 .00055 .00056 .000620 .000620 .000621 .00081 .00087 .000872
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55	.045558 .052227 PROBABIL1 OUTER 1 .001368 .002016 .002895 .004054 .005545 .004054 .005545 .007417 .009714 .015723 .019478 .025744	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000007 .000010 .000011 .000013 .000015 .000017 .000018 .000018	. 002124 . 002218 . 002507 - 70 A INNER (253 . 000045 . 000074 . 000085 . 000074 . 000085 . 000103 . 000114 . 000125 . 000148 . 000140 . 000172	.008879 .009206 • 8 
64.0 65.0 8LOCK1NG LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 51.0 52.0 53.0 54.0 53.0 54.0 54.0 54.0 55	.045558 .052227 PROBABIL1 OUTER 1 .001368 .002016 .002895 .004054 .005545 .004054 .005545 .007417 .009714 .015723 .019478 .025744 .028517	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000008 .000009 .000010 .000011 .000013 .000015 .000017 .000018 .000020 .000021	.002124 .002218 .002307 -70 A INPER(253 .000045 .000045 .000074 .000085 .000103 .000103 .000103 .000125 .000125 .000148 .000140	.008879 .009206 • 8 
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 .002016 .002895 .004054 .005545 .004054 .005545 .007417 .009714 .015723 .019478 .023744 .028517 .032779	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000007 .000010 .000011 .000013 .000015 .000017 .000018 .000020 .000021 .000022	.002124 .002218 .002307 .002307 .000065 .000065 .000074 .000083 .000103 .000103 .000125 .000148 .000148 .000148 .000148 .000195	.008879 .009206 • 8 
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 .002016 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .012474 .019478 .023744 .028517 .033506	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000008 .000009 .000010 .000011 .000013 .000015 .000017 .000018 .000020 .000021	.002124 .002218 .002307 .002307 .000065 .000065 .000074 .000083 .000103 .000103 .000125 .000148 .000148 .000148 .000148 .000195	.008879 .009206 • 8 
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015725 .019478 .025744 .028517 .03274 .039504 .045*88	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000010 .000011 .000011 .000013 .000014 .000015 .000017 .000017 .000017 .000012 .000020 .000021 .000022 .000022	.002124 .002218 .002307 -70 A -70 A	.008879 .009206 • 6 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0
64.0 65.0 BLOCKING LOAD 	.045558 .052227 PROBABILI OUTER 1 .001368 002014 .002895 .004054 .005545 .007417 .009714 .012474 .012474 .015725 .019478 .025744 .028517 .03274 .039504 .045*88	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000010 .000011 .000011 .000013 .000014 .000015 .000017 .000017 .000017 .000012 .000020 .000021 .000022 .000022	. 002124 . 002218 . 002307 . 000307 . 000065 . 000074 . 000083 . 000073 . 000103 . 000114 . 000125 . 000163 . 000160 . 000172 . 000163 . 000163 . 000195 . 000206 . 000217	.008879 .009206 • 6 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55	. 045558 . 052227 PROBABIL1 OUTER 1 . 001368 002014 . 002895 . 004054 . 005545 . 007417 . 009714 . 012474 . 015723 . 019478 . 025744 . 025177 . 039504 . 045568 . 052227	.000363 .000280 .300397 TIES FOR C .000007 .000007 .000008 .000001 .000013 .000014 .000015 .000014 .000015 .000014 .000015 .000014 .000015 .000014 .000015 .000012 .000022 .00022 .00022 .00022	.002124 .002218 .002307 -70 A INDER(25) .000065 .000074 .000085 .000074 .000183 .000103 .000114 .000125 .000148 .000148 .000148 .000148 .000148 .000148 .000195 .000204 .000227	.008879 .009206 • 6 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002014 . 002895 . 004054 . 005545 . 004054 . 005545 . 007417 . 009714 . 012474 . 012950 . 0129504 . 045568 . 052227	.000363 .000280 .300397 TIES FOR C .000007 .000008 .000009 .000010 .000010 .000014 .000015 .000014 .000015 .000012 .000020 .000021 .000022 .000022 .000024	.002124 .002218 .002307 -70 A -70 A	.008879 .009206 • 8 INNER(42) .000404 .000453 .000525 .0005+. .000620 .000807 .000807 .000807 .000807 .000937 .001001 .001045 .00124 .001246 .001502
64.0 65.0 8LOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002016 . 002895 . 004054 . 005545 . 004054 . 005545 . 007417 . 009714 . 012474 . 015723 . 019478 . 023744 . 028517 . 033744 . 028517 . 03374 . 03374 . 03374 . 03556 . 04558 . 052227	. 000363 . 000280 . 000397 TIES FOR C . 0000397 . 000007 . 000007 . 000008 . 000009 . 000010 . 000010 . 000011 . 000013 . 000014 . 000015 . 000015 . 000012 . 000022 . 000022 . 000024 . 000025 . 000026	. 002124 . 002218 . 002507 - 70 A INNER (253 . 000045 . 000074 . 000085 . 000074 . 000085 . 000074 . 000103 . 000103 . 000103 . 000114 . 000125 . 000148 . 000148 . 000148 . 000148 . 000148 . 000217 . 000227 - 70 A	.008879 .009206 • 8 INNER(42) .000404 .000453 .000525 .0005+. .000620 .000807 .000807 .000807 .000807 .000937 .001001 .001045 .00124 .001246 .001502
64.0 65.0 8LOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002016 . 002895 . 004054 . 005545 . 004054 . 005545 . 007417 . 009714 . 015723 . 019478 . 015723 . 019478 . 023744 . 028517 . 033744 . 025545 . 045568 . 052227 PROBABILI	.000363 .000280 .000397 TIES FOR C .000007 .000008 .000009 .000010 .000010 .000011 .000013 .000015 .000015 .000015 .000012 .000022 .000022 .000022 .000024 .000025 .000026	. 002124 . 002218 . 002307 . 70 A INMER(25) . 000045 . 000074 . 000085 . 000074 . 000085 . 000074 . 000105 . 000105 . 000105 . 000148 . 000148 . 000148 . 000148 . 000148 . 000148 . 000148 . 000217 . 000227 . 70 A	.008879 .009206 • 8 INNER(42) .000404 .000453 .000525 .00054 .000620 .000620 .000620 .000620 .000621 .000745 .000807 .000807 .000807 .000807 .000807 .000937 .001001 .001065 .001127 .001188 .001246 .001302
64.0 65.0 BLOCKING 	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002016 . 002895 . 004054 . 005845 . 004054 . 005845 . 004054 . 005845 . 007417 . 009714 . 015723 . 019478 . 023744 . 028517 . 028517 . 028517 . 028517 . 028517 . 028517 . 028517 . 028517 . 028517 . 02950 . 045568 . 052227 PROBABILI DUTER 11	.000363 .000280 .000397 TIES FOR C .000007 .000007 .000007 .000008 .000009 .000010 .000010 .000011 .000013 .000015 .000015 .000015 .000012 .000020 .000021 .000022 .00022 .00022 .00024 .000025 .000026	.002124 .002218 .002307 -70 A INNER(25) .000045 .000074 .000085 .000074 .000103 .000103 .000103 .000125 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000217 .000227	.008879 .009206 • 8 INNER(42) .000404 .000453 .00055 .00050 .000620 .000620 .000681 .000745 .000807 .000807 .000807 .000872 .000937 .001001 .001065 .001127 .001188 .001246 .001302
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 50.0 55.0 50.0 50.0 50.0 50.0 50.0	. 045558 . 052227 PROBABIL1 OUTER 1 . 001368 002014 . 002895 . 004054 . 002895 . 004054 . 005545 . 007417 . 009714 . 012474 . 015723 . 019478 . 025744 . 028517 . 039504 . 045568 . 052227 PROBABIL1 . 001368	.000363 .000280 .000397 TIES FOR C .000007 .000007 .000008 .000007 .000008 .000001 .000013 .000014 .000013 .000014 .000015 .000014 .000015 .000017 .000018 .000022 .00022 .00022 .00022 .00024 .000025 .000026	.002124 .002218 .002307 -70 A INDER(25) .000065 .00074 .00085 .00074 .00085 .00074 .000183 .000148 .000148 .000148 .000148 .000148 .000148 .000172 .000148 .000195 .000204 .000217 .000204 .000217 .000204	.008879 .009206 • 8 INNER(42) .000404 .000453 .00055 .0005+. .000620 .00081 .000745 .000872 .000937 .0000872 .000937 .001065 .001127 .001188 .001246 .001302 • 9 INNER(421 .000034
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 50.0 55.0 50.0 50.0 50.0 50.0 50.0	. 045558 . 052227 PROBABIL1 OUTER 1 . 001368 002014 . 002895 . 004054 . 002895 . 004054 . 005545 . 007417 . 009714 . 012474 . 015723 . 019478 . 025744 . 028517 . 039504 . 045568 . 052227 PROBABIL1 . 001368	.000363 .000280 .000397 TIES FOR C .000007 .000007 .000007 .000007 .000007 .000001 .000010 .000011 .000013 .000014 .000014 .000015 .000017 .000018 .000022 .000024 .000025 .000024 .000025 .000024	.002124 .002218 .002307 -70 A INMER(25) .000065 .000074 .000085 .000074 .000085 .000103 .000103 .000103 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000227 -70 A	.008879 .009206 • 8 INNER(42) .000404 .000453 .00055 .0005+. .000620 .00081 .000745 .000872 .000937 .0000872 .000937 .001065 .001127 .001188 .001246 .001302 • 9 INNER(421 .000034
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 50.0 55.0 50	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002014 . 002895 . 004054 . 005545 . 004054 . 005545 . 004054 . 005545 . 00714 . 012474 . 015723 . 019478 . 025744 . 025744 . 025744 . 025744 . 025744 . 025744 . 035750 . 045568 . 052227 PROBABILI . 001368 . 002016 . 002016 . 002016	. 000363 . 000280 . 000397 TIES FOR C . 000007 . 000007 . 000007 . 000007 . 000007 . 0000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000025 . 000024 TIES FOR C	. 002124 . 002218 . 002307 - 70 A INNER (253 . 000045 . 000045 . 000074 . 000085 . 000074 . 000085 . 000103 . 000103 . 000104 . 000125 . 000104 . 000125 . 000125 . 000125 . 000148 . 000148 . 000148 . 000125 . 000204 . 000227 - 70 A INNER (353) . 000004 . 00005 . 00005	.008879 .009206 • 8 INNER(42) .000404 .000453 .00055 .00055 .00055 .00055 .00057 .000872 .000937 .0000937 .001001 .001245 .00127 .001246 .001302 • 9 INNER(421 .00034 .00039 .00039 .000055
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 50.0 55.0 50	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002014 . 002895 . 004054 . 005545 . 004054 . 005545 . 004054 . 005545 . 00714 . 012474 . 015723 . 019478 . 025744 . 025744 . 025744 . 025744 . 025744 . 025744 . 039504 . 045468 . 052227 PROBABILI . 001368 . 002014 . 001368 . 002014 . 002995 . 004054	. 000363 . 000280 . 000397 TIES FOR C . 000007 . 000007 . 000008 . 000007 . 000007 . 0000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000012 . 000020 . 000021 . 000022 . 000024 TIES FOR C	. 002124 . 002218 . 002307 - 70 A INNER (253 . 000045 . 000045 . 000045 . 000045 . 00013 . 000103 . 000103 . 000104 . 000125 . 000104 . 000125 . 000148 . 000148 . 000148 . 000155 . 000204 . 00027 - 70 A INNER (353) . 00004	.008879 .009206 • 8 INNER(42) .000404 .000453 .000555 .00054 .000620 .000807 .000807 .000807 .000807 .000937 .001001 .001045 .00124 .001246 .001246 .001246 .001502 • 9 INNER(421 .00034 .00034 .00035 .00050
64.0 65.0 BLOCKING LOAD 50.0 51.0 52.0 53.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 54.0 55.0 50.0 55.0 50	. 045558 . 052227 PROBABILI OUTER 1 . 001368 002014 . 002895 . 004054 . 005545 . 004054 . 005545 . 004054 . 005545 . 00714 . 012474 . 015723 . 019478 . 025744 . 025744 . 025744 . 025744 . 025744 . 025744 . 035750 . 045568 . 052227 PROBABILI . 001368 . 002016 . 002016 . 002016	. 000363 . 000280 . 000397 TIES FOR C . 000007 . 000007 . 000007 . 000007 . 000007 . 0000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000014 . 000015 . 000025 . 000024 TIES FOR C	. 002124 . 002218 . 002307 - 70 A INNER (253 . 000045 . 000045 . 000074 . 000085 . 000074 . 000085 . 000103 . 000103 . 000104 . 000125 . 000104 . 000125 . 000125 . 000125 . 000148 . 000148 . 000148 . 000125 . 000204 . 000227 - 70 A INNER (353) . 000004 . 00005 . 00005	.008879 .009206 • 8 INNER(42) .000404 .000453 .00055 .00055 .00055 .00055 .00057 .000872 .000937 .0000937 .001001 .001245 .00127 .001246 .001302 • 9 INNER(421 .00034 .00039 .00039 .000055

71.0	.029640	.007053	.025367	.064893
72.0	.034468	.007310	.026171	.066629
73.0	.039608	.007555	.026940	.0+8278
		.007790	.027672	.069840
74.0	.045214			
75.0	.051078	.008015	.028366	.071315
BLOCKIN	G PRCBABIL	ITIES FOR	C + 80 A	• 7
LOAD	OUTER	INNER (28)	INNER (35)	INNER (42)
60.0	.002199	.000159	.002135	008~83
61.0	.00:04:	.000-02	.002310	. 204103
s2.0	.004126	.000437	.002491	.009738
63.0	.005485	000472	.002+77	.010385
\$4.0	007158	. 000509	.002866	.011039
»S.0	.009176	.00054.	. 003057	.011697
5 B 0	.011570	.000584	.003250	012352
67.0	.014358	.000622	.003442	.013003
68.0	.017557	. 000659	. 003633	.013643
<b>a</b> 9.0	.021172	.000696	.001820	.014271
70.0	.025203	.000733	.004004	.014882
71.0	.029640	.0007.9	.004183	.015473
72.0	.034408	.000804	.004356	.016043
73.0	.039608	.000817	.004523	.016590
74.0	.045214		.004.84	.017112
		.000870		
75.0	.051078	.000901	.004837	.017610
8LOCKING	PROBABILI	TIES FOR C	A 08 + 2	• 8
LOAD	OUTER 1	NNER (28)	INNER (35)	INNER (421
60.0	.002199	.000025	.000213	.001212
61.0	.003043	.000028	.000235	.001324
62.0	.004126	120000	.000257	.001441
63.0	.005485	.000033	.000281	.0015+3
64.0	.007158	. 000037	.000305	.001687
65.0	.009176	.000040	. 000530	.001814
66.0	.011570	.000043	.000356	.001943
67.0	.014358	.000046	.000381	.002072
68.0	.017557	.000050	. 000407	.002201
69.0	.021172	.000053	.000432	.002328
70.0	.025203	.000056	.000458	.002453
71.0	.029640	.000059	.000482	.002576
72.0	.034468	.0000.5	.000506	.002695
73.0	.059668	.0000+6	.000530	.002311
74.0	.045214	.000069	.000553	.002922
75.0		.000072	.000575	001028
/3.0	. 0310/8		.000575	.003018
	PROBABILI			
•				
LOAD	OUTER IN	UNER (28)	INNER (35)	1NNER (42)
60.0	.002199	.000001	.000016	.000128
+1.0	.003043	.000001		.000142
42.0	.004126	.000002		.000157
÷2.0	.005485	.000002		.000173
64.0	.007158			.000189
65 0	.009176	.000002		.000206
66.0	.011570	.000002	.000029	.000224
67.0	.014358	. 0 0 0 0 3	.000031	.000241
68.0	.017557	.000003		.000259
69.0	.0211/2	.000003		.000277
70.0	.025203	.000003	.0000:9	000294
71.0	.029640	. 000003		.000312
72.0	.034468	.000004	.000043	.000329
73.0				
	.0396.8	.000004	.000046	.000346
74.0		.000004		.000346
74.0	.045214	.000004	.000048	

			C = 80 A	
LOAD				IND4ER (42)
		1.00CX(28)		18942.8142.1
	. 002199			
61.0				.000012
62.0	.004126	.000000	.000001	.000013
63.0	.005485			.000015
64.0	.007158	.000000	.000001	.0000:+
e5 0	.009176	.000000	000002	.000018
66.0	.011570	.000000	.000002	.000020
67.0	.014358		.00002	.000021
68.0	.017557		.000002	.000023
69 0	.021172	.000000	.000002	.000025
70 0	.025203	.000000	.000002	.000027
71.0	.029640	.000000	.000003	.000029
72.0	.034468	.000000	.000003	.033010
73.0	.059668	.000000	.000003	.000052
74.0	.045214	.000000	. 000003	.000034
75.0	.051078	.000000	.000003	.000036
		ITIES FOR (		• 11
LOAD	OUTER	1HH-ER (28)	INNER (15)	1NHER (42)
60.0	.002199	.000000	. 000000	.000001
61.0	.003043		.000000	.000001
62.0	.004126		.000000	.000001
63.0	.005485	.000000	.000000	.000301
64.0	.007158	.000000	.000000	100000.
65.0	.009176	.00000	.000000	.000001
66.O	.011570		.000000	.000001
.7.0	.014358	.000000	.000000	.000001
68.0	.017557	.000000	. 300000	.000002
69.0	.021172	.000000	.000000	.000002
73.0	.025203	.000000	. 0 0 0 0 0 0	.000002
71.0	.029640	.000000	.000000	.00002
72.0	.034468	.000000	.000000	.000002
75.0	.039668	.000000	.000000	.000002
74.0	.045214	.000000		.000002
75.0	.051078	.000000	.000000	. 0 0 0 0 0 1
		TIES 500 C	• 80 A •	
LOAD	OUTER I	NNER (28)	INNER (35)	INNER (42)
60.0	.002199	.000000	.000000	.000000
61.0	.003043	.000000	.000000	.000000
62.0	.004126	.000000	.000000	.00000
63.0	.005485	.000000		. 000000
64.0	.007158	.000000	.000000	.000000
65.0	.009176	.000000	.000000	.000000
	.011570	.000000	.000000	
67.0	.014358	.000000	.000000	.000000
	.017557	.000000	. 000000	.000000
69.0	.021172	.000000	.000000	. 000000
70.0	.025203	.000000		. 000000
71.0	.029640	.000000		.000000
72.0	.014468	.000000		.000000
73.0	.045214	. 000000		
75.0	.051078	.0000000		. 0000000
		TIES FOR C		
LOAD			NNER (35)	
70.0	.001092	.007640	.026982	.067914

77.0	.015874	.000008	.000086	.000618
78.0	.018980	000008	.000092	.000+55
79.0	.022434	.000009	.000097	
				.000+92
80.0	.026212	.000009	.000103	.000728
81.0	.030365	.000010	.000108	.0007+3
82.0	.034819	.000010	.000113	.000798
83.0	. 039577	.000011	.000118	.000831
84.0	.044620	.000011	.000123	.000365
85.0	.049926	.000012	.000128	.000895
		ITLES FOR		
LCAD	OUTER	IHHER(25)	INNER(15)	THHER (42)
70.0	.003092	. 000000	.000003	.000036
71.0	.004092	. 000000	.000004	.000040
72.0	.005325	.000000	000004	.000344
75.0	.036820	.000000	.000005	.000048
74.0	.008603	. 000000	. 000005	.000052
75.0	.010695			
		. 0 3 0 0 0 0	.000005	.000056
76.0	.015115	. 000000	. 300006	.003061
77.0	.015874	303000	000006	.0000.5
78.0	.018980	. 000000	.000007	.000070
79.0	.022434	.000000	.00007	.000074
80.0	.026232	. 000000	.300008	.000078
81.0	.030365	.006301	.000008	.000092
82.0	.034819	.000001	.000009	.000087
83.0	.039577	.000001	.000009	. 000091
84.0	.044620	.000301		. 000095
			.000010	
85.0	.049926	.000001	.000010	.000099
BL OCK LNG		TIES FOR C	- 90 A	• 11
LOAD				1NNER (42)
LUAD	OUTER 1	HHER (28)	INHER (35)	THAT REAL FROM
70.0	2 و ۵۵ ۵۵ .	. 000000		. 0 0 0 0 0 3
70.0	.003092	.000000	. 000000 . 000000	.000003
70.0 71.0 72.0	.003092 .004092 .005325	.000000	. 000000 . 000000 . 000000	.000003
70.0	.003092	.000000	. 000000 . 000000	.000003
70.0 71.0 72.0	.003092 .004092 .005325	.000000	. 000000 . 000000 . 000000	.000003
70.0 71.0 72.0 73.0	.003092 .004092 .005325 .006820	. 000000 . 000000 . 000000 . 000000	. 000000 . 000000 . 000000 . 000000	.000003 .000003 .000003 .000004
70.0 71.0 72.0 73.0 74.0 75.0	.003092 .004092 .005325 .006820 .008603 .010695	.000000 .000000 .000000 .000000 .000000	. 0000000 . 000000 . 0000000 . 000000 . 000000 . 000000	.000003 .000003 .000003 .000004 .000004 .000004
70.0 71.0 72.0 73.0 74.0 75.0 76.0	. 003092 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115	. 000000 . 000000 . 000000 . 000000 . 000000 . 000000	. 00 0 0 0 0 . 00 0 0 0 0 . 00 0 0 0 0 . 00 0 0 0	.000003 .000003 .000003 .000004 .000004 .000004 .000005
70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0	.003092 .004092 .005325 .006820 .008603 .010695 .013115 .015874	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000003 .000003 .000003 .000004 .000004 .000005 .000005
70.0 71.0 72.0 73.0 74.0 75.0 76.0	. 003092 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115	. 000000 . 000000 . 000000 . 000000 . 000000 . 000000	. 00 0 0 0 0 . 00 0 0 0 0 . 00 0 0 0 0 . 00 0 0 0	.000003 .000003 .000003 .000004 .000004 .000004 .000005
70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0	.003092 .004092 .005325 .006820 .008603 .010695 .013115 .015874	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000003 .000003 .000003 .000004 .000004 .000005 .000005
70.0 71.0 72.0 73.0 74.0 75.0 76.0 76.0 77.0 78.0	.003092 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00 0 0 0 0 . 0 0 0 0 0 . 0 0 0 0 0 . 0 0 0 0	.000003 .000003 .000003 .000004 .000004 .000004 .000005 .000005 .000005
70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0	.003032 004092 005325 006820 008603 010495 013115 013115 015874 018980 022434	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000003 .000003 .000003 .000004 .000004 .000004 .000005 .000005 .000005 .000006
70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 75.0 76.0 75.0 76.0 80.0 80.0 81.0	. 003232 004092 005325 006820 .008603 .010695 .013115 .015874 .018880 .022434 .026232 .030365	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000003 .00003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00005 .00006 .000006
70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0 81.0 81.0 82.0	. 003232 004092 005325 006820 .008603 .010695 .013115 .015874 .018980 .022434 .026232 .030365 .034819	. 00000 . 00000	. 00000 . 00000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .000007 .000007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 79.0 80.0 81.0 82.0 82.0 83.0	. 003032 004092 005325 006820 008603 010695 013115 015874 018980 022434 026232 030365 034819 039577	. 00000 . 00000	. 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000	.000003 .00003 .00004 .00004 .00004 .00005 .000005 .000005 .000006 .000006 .000007 .000007 .000007 .000007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 79.0 80.0 81.0 82.0 82.0 83.0	. 003032 004092 005325 006820 008603 010695 013115 015874 018980 022434 026232 030365 034819 039577	. 00000 . 00000	. 00000 . 00000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .000007 .000007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 78.0 80.0 80.0 81.0 81.0 81.0 83.0 84.0	. 003032 004092 005325 006820 008603 010695 013115 015874 018980 022434 026232 030365 034819 039577	. 00000 . 00000	. 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000	.000003 .00003 .00004 .00004 .00004 .00005 .000005 .000005 .000006 .000006 .000007 .000007 .000007 .000007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 78.0 80.0 80.0 81.0 81.0 81.0 83.0 84.0	. 003032 004092 005325 006820 008603 010695 013115 015874 018980 022434 026232 030365 034819 039577 044420	. 00000 . 00000	. 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .000005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 78.0 79.0 80.0 81.0 82.0 81.0 82.0 85.0	.003292 .004392 .005325 .006820 .008603 .010695 .01315 .015874 .018980 .022434 .026232 .03365 .034819 .039577 .044926		. 00000 . 000000 . 00000 . 000000 . 000000 . 00000 . 000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 76.0 79.0 80.0 81.0 80.0 81.0 83.0 83.0 83.0 85.0	.003292 .004092 .005325 .006820 .00863 .010495 .013115 .015874 .018980 .022434 .024232 .030345 .039577 .044420 .049926		. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 00000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 78.0 79.0 80.0 81.0 82.0 83.0 83.0 83.0 85.0	.003232 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .024232 .030345 .034819 .035577 .044420 .049924	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 78.0 79.0 80.0 81.0 82.0 83.0 83.0 83.0 85.0	.003232 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .024232 .030345 .034819 .035577 .044420 .049924	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 78.0 79.0 80.0 81.0 82.0 83.0 83.0 83.0 85.0	.003232 004092 005325 006820 008603 010695 013115 015874 022434 026232 030365 034819 039577 044620 049926	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000 . 00000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0 81.0 80.0 81.0 82.0 83.0 85.0 85.0	. 003232 004092 005325 006820 008603 010695 013115 015874 015874 02434 02434 02434 02434 035577 044420 049926 PROBABIL 11 OUTER 11	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 0000000 . 000000 . 0000000 . 00000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 79.0 80.0 80.0 81.0 82.0 83.0 82.0 83.0 84.0 85.0	.003232 004092 005325 006820 008603 010695 013115 015874 018980 022434 024232 030365 034819 039577 044420 049926 PROBABIL 11 OUTER 1)	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 00000000	.000003 .00003 .00004 .00004 .00005 .00005 .00006 .00006 .00006 .00007 .000007
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 79.0 80.0 80.0 81.0 82.0 81.0 82.0 83.0 84.0 85.0 85.0	.003032 004092 005325 006820 008603 010695 013115 015874 018980 022434 024232 030365 034819 039577 044420 049926 PROBABIL 11 OUTER 1)	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 00000	.000003 .00003 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00009 .00009 .00009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 76.0 79.0 80.0 81.0 80.0 81.0 83.0 83.0 85.0 84.0 85.0 84.0 85.0	.003292 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .024232 .030345 .034819 .039577 .044420 .049926 PROBABIL I .049926	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000009 .000009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 76.0 79.0 80.0 81.0 80.0 81.0 83.0 83.0 85.0 84.0 85.0 84.0 85.0	.003292 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .024232 .030345 .034819 .039577 .044420 .049926 PROBABIL I .049926	.000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	. 000000 . 00000 . 000000 . 000000 . 000000 . 000000 . 000000	.000003 .00003 .00004 .00004 .00005 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00009 .00009 .00009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 80.0 81.0 82.0 83.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0	.003292 .004092 .005325 .006820 .00863 .010695 .013115 .015874 .018980 .022434 .02434 .024232 .030345 .039577 .044420 .049926 PROBABIL I .003092 .004092 .00525	.000000 .000000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000009 .000009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 76.0 79.0 80.0 81.0 80.0 81.0 83.0 83.0 83.0 85.0 85.0 85.0 85.0 70.0 71.0 70.0 71.0 72.0 73.0	.003292 .004092 .005325 .006820 .00863 .010495 .013115 .015874 .018980 .022434 .024232 .030345 .034819 .039577 .044420 .049924 PROBABIL 11 OUTER 1) .003092 .004092 .00525 .004820	.000000 .000000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000005 .000005 .000000 .000000 .000000 .000000
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 83.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 71.0 71.0 72.0 71.0 72.0 73.0 74.0	.003232 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .02434 .02434 .02432 .030345 .034819 .035577 .044420 .049924 PROBABILLI .001092 .005092 .004092 .005125 .004820 .008403	.000000 .000000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00004 .00005 .00005 .00005 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00009 .000009 .000009 .000000 .000000 .000000 .000000 .000000
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 71.0 71.0 71.0 71.0 71.0 72.0 73.0 73.0	. 003232 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115 . 015874 . 015876 . 022434 . 02434 . 02432 . 030345 . 034819 . 039577 . 044620 . 049926 PROBABILLI' . 003092 . 005092 . 00525 . 008603 . 010495	.000000 .000000	. 000000 . 00000 . 000000 . 00000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 000000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000007 .000009 .000009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 71.0 71.0 71.0 71.0 71.0 71.0 75.0 74.0 75.0 74.0	. 003232 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115 . 015874 . 015874 . 02434 . 02434 . 02434 . 02434 . 02434 . 039577 . 044620 . 049926 PROBABIL 11 . 003092 . 004092 . 00525 . 008603 . 01695 . 012115	.000000 .00000	. 000000 . 00000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 000000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .00000 .00000 .00000 .00000 .00000 .00000
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 71.0 71.0 71.0 71.0 71.0 71.0 75.0 74.0 75.0 74.0	. 003232 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115 . 015874 . 015874 . 02434 . 02434 . 02434 . 02434 . 02434 . 039577 . 044620 . 049926 PROBABIL 11 . 003092 . 004092 . 00525 . 008603 . 01695 . 012115	.000000 .00000	. 000000 . 00000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 0000000 . 0000000 . 000000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00006 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000007 .000009 .000009
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 76.0 79.0 80.0 81.0 82.0 81.0 82.0 83.0 85.0 85.0 85.0 79.0 85.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0	. 003232 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115 . 015874 . 018980 . 022434 . 026232 . 030365 . 034819 . 039577 . 044620 . 049926 PROBABIL 1 PROBABIL 1 . 003092 . 005092 . 006803 . 010695 . 012115 . 015874	.000000 .00000	. 000000 . 00000 . 00000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .00000 .00000 .00000 .00000 .00000 .00000
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 76.0 79.0 80.0 81.0 82.0 81.0 82.0 83.0 85.0 85.0 85.0 79.0 85.0 79.0 70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 75.0 76.0 75.0 76.0 77.0 85.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7	. 003232 . 004092 . 005325 . 006820 . 008603 . 010695 . 013115 . 015874 . 018980 . 022434 . 026232 . 030365 . 034819 . 039577 . 044420 . 049926 PROBABIL 1 PROBABIL 1 . 003092 . 006092 . 006032 . 006603 . 012115 . 018960	.00000 .00000	. 000000 . 00000 . 000000 . 00000 . 00000 . 00000 . 000000 . 000000 . 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00006 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .000000 .000000 .000000 .000000 .000000
70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 80.0 81.0 82.0 83.0 83.0 83.0 83.0 85.0 85.0 85.0 70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 75.0 74.0 75.0 76.0 71.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75	.003:32 004:32 005:325 .006:820 .008:63 .0106:95 .013115 .015115 .015174 .018:980 .0224:34 .024:34 .024:32 .0303:577 .044:620 .049926 PROBABIL 1 .03092 .004:92 .005:25 .004:820 .005:25 .015:874 .018:980 .0224:34	.000000 .00000	. 000000 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 0000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000
70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 80.0 81.0 82.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83	.003:32 004:32 005:325 006:820 008:63 0106:95 013115 015:15 015:15 0224:34 024:34 024:34 024:34 035:77 044:620 04:97:6 PROBABIL 1 04:97:6 PROBABIL 1 001072 004:07 005:25 00:820 00:825 01:115 01:874 01:876 0:224:34 0:224:34 0:224:34	.000000 .00000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000000 . 000000 . 000000 . 000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00005 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .000007 .000009 .000000 .000000 .000000 .000000 .000000
70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 80.0 81.0 82.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83	.003:32 004:32 005:325 006:820 008:63 0106:95 013115 015:15 015:15 0224:34 024:34 024:34 024:34 035:77 044:620 04:97:6 PROBABIL 1 04:97:6 PROBABIL 1 001072 004:07 005:25 00:820 00:825 01:115 01:874 01:876 0:224:34 0:224:34 0:224:34	.000000 .00000	. 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000000 . 000000 . 000000 . 000000 . 0000000000	.000003 .00003 .00004 .00004 .00004 .00005 .00005 .00005 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000
70.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 74.0 75.0 80.0 81.0 83.0 83.0 84.0 83.0 85.0 85.0 85.0 85.0 77.0 70.0 71.0 72.0 71.0 72.0 73.0 74.0 75.0 74.0 75.0 71.0 75.0 76.0 77.0 75.0 76.0 77.0 75.0 76.0 77.0 75.0 76.0 77.0 75.0 76.0 77.0 75.0 76.0 77.0 80.0 77.0 80.0 77.0 80.0 80.0 80	. 003:32 . 004:32 . 004:32 . 005:325 . 006:820 . 016:95 . 013:115 . 015:874 . 018:980 . 0224:34 . 026:232 . 0303:85 . 034:819 . 035:977 . 044:20 . 049:926 PROBABIL 11 . 003:092 . 005:25 . 004:820 . 008:403 . 016:95 . 015:874 . 018:96 . 024:34 . 018:96 . 018:96 . 018:97 . 018:98 . 018:98	.000000 .00000	. 000000 . 00000 . 000000 . 000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 0000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 0000000000	.000003 .00003 .00003 .00004 .00004 .00005 .00005 .00005 .00005 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00007 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

71.0	.004092	.008066	.028273	.070600
72.0	.005325	.008497	.029566	.073268
73.0	.006820	.008930	.030855	.075906
74.0	.008.003	.009363	.032135	.078502
75.0	.010695	.009794	.033378	.081044
76.0	.013115	.010220	.034639	. 08 35 22
77.0	.015874	.010+39	.035851	.085927
78.0	.018980	.011049	.037030	.088251
79.0	. 022434	.011448	.038172	.0*0487
80.0	02+232	.011835	.039273	.092629
a1.0	.0103+5	.012209	.040330	.034675
82.0	.034819	.012569	.041342	.096623
85 0	.039577	.012913	.042307	. 398470
	. 0-4020	.015242	. 043224	.103219
d4 0				
85.0	.049926	.015556	.044094	.101871
D. OFFIC		ITIES FOR G		• 7
LCAD	OUTER	INNER (28)	INNER(35)	1HHER (42)
70.0	. 003092	.000867	.004622	.016741
71.0	.004092	.000929	.004920	.017581
72.0	.005325	.003993	.005223	.018+29
73.0	.006820	.001058	.005529	.019581
74.3	.008+03	.001124	.005837	. 020532
75.0	.010+95	.001190	.006146	.021475
76.0	.013115	.001256	.006452	.022407
	.015874			.023522
77.0		.001321	.006755	
78.0	.018980	.001386	.007053	.024216
79_0	.022434	.001450	.007344	.025085
80.0	.026232	.001512	. 307628	.025927
81.0	.030365	.001573	.007903	.026739
82.0	.034819	.001632	.008168	.027518
83.0	.039577	.001689	.008423	.0282+4
84.0	.044620		.008668	.028976
84.0	.044620	.001743	.008668	.028976
84.0 85.0	.044620		.008668 .008902	.028976 .029653
		.001743		
		.001743		
85.0	.049926	.001743	.008902	. 02 9 6 5 3
85.0	.049926 PROBABILI	.001743	.008902 • 90 - A	. 02 9 6 5 3
85.0 BLOCKING	.049926 PROBABILI	.001743 .001796 TIES FOR C	.008902 • 90 - A	. 02 96 5 3
85.0 BLOCKING	.049926 PROBABILI DUTER I	.001743 .001796 TIES FOR C	. 008 902 • 90 - A	.029653 • 8 INNER(42)
85.0 BLOCKING	.049926 PROBABILI DUTER I	.001743 .001796 TIES FOR C	. 008 902 • 90 - A	. 02 96 5 3
85.0 BLOCKING	.049926 PROBABILI DUTER I	.001743 .001796 TIES FOR C	. 008 902 • 90 - A	.029653 • 8 INNER(42)
85.0 BLOCKING LOAD 70.0	.049926 PROBABILI DUTER I .003092	.001743 .001796 TIES FOR C NNER(28)	. 008 902 • 90 - A INNER(35) . 000558	. 029653 • 8 INNER (42) . 002909
85.0 BLOCKING LOAD 70.0 71.0	.049926 PROBABILI OUTER I .003092 .004092	.001743 .001796 TIES FOR C NNER (28) .000070 .000076	. 008 902 • 90 - A INNER(35) . 000558 . 000603	. 02 9653 • 8 INOVER (42) . 00290 9 . 003121
85.0 BLOCKING LOAD 70.0 71.0 72.0	.049926 PROBABILI DUTER J .003092 .004092 .005325	.001743 .001796 TIES FOR C NNER (28) .000070 .000076 .000083	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649	.029653 • 8 INOVER(42) .002909 .005121 .003338
85.0 BLOCKING LOAD 70.0 71.0	.049926 PROBABILI OUTER I .003092 .004092	.001743 .001796 TIES FOR C NNER (28) .000070 .000076	. 008 902 • 90 - A INNER(35) . 000558 . 000603	. 02 9653 • 8 INOVER (42) . 00290 9 . 003121
85.0 BLOCKING LOAD 70.0 71.0 72.0	.049926 PROBABILI DUTER J .003092 .004092 .005325	.001743 .001796 TIES FOR C NNER (28) .000070 .000076 .000083	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649	.029653 • 8 INOVER(42) .002909 .005121 .003338
85.0 BLOCKING 	.049926 PROBABILI OUTER I .003092 .004092 .005325 .006820	.001743 .001796 TIES FOR C NNER(28) .000070 .000076 .000083 .000089	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000696	.029653 8 1H04ER(42) .002909 .003121 .003338 .003558
85.0 BLOCKING LOAD 70.0 71.3 72.0 73.0 74.0 75.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .006820 .008603 .010695	.001743 .001794 TIES FOR C NNER(28) .000076 .000076 .000083 .000094 .000094	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000646 . 000744 . 000795	.029653 8 1KovER(42) .002909 .003121 .00338 .003558 .003782 .004006
85.0 BLOCKING LOAO 70.0 71.0 72.0 75.0 74.0 75.0 76.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .00803 .010695 .013115	.001743 .001794 TIES FOR C NNER (28) .000070 .000076 .000083 .000084 .000094 .000102 .000103	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000646 . 000744 . 000793 . 000842	.029653 8 1KMER(42) .002909 .00121 .00338 .00358 .003782 .00406 .004230
85.0 BLOCKING LOAD 70.0 71.3 72.0 73.0 74.0 75.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .006820 .008603 .010695	.001743 .001796 TIES FOR C NNER (28) .000076 .000076 .000083 .000084 .000096 .000096 .000102 .000109 .000116	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000649 . 000744 . 000745 . 000842 . 000890	.029653 8 1KovER(42) .002909 .003121 .00338 .003558 .003782 .004006
85.0 BLOCKING LOAO 70.0 71.0 72.0 75.0 74.0 75.0 76.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .00803 .010695 .013115	.001743 .001794 TIES FOR C NNER (28) .000070 .000076 .000083 .000084 .000094 .000102 .000103	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000646 . 000744 . 000793 . 000842	.029653 8 1KMER(42) .002909 .00121 .00338 .00358 .003782 .00406 .004230
85.0 BLOCKING LOAD 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .008603 .01095 .013115 .015874 .018980	.001743 .001796 TIES FOR C NNER (28) .000076 .000076 .000083 .000096 .000108 .000102 .000109 .000116 .000123	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000649 . 000744 . 000745 . 000842 . 000890	.029653 8 1604ER(42) .002909 .003121 .003338 .003558 .003582 .004006 .004230 .004453
85.0 BLOCKING T0.0 71.0 75.0 75.0 75.0 76.0 77.0 78.0 79.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .008603 .01095 .013115 .015874 .018980 .022434	.001743 .001794 TIES FOR C NNER(28) .000070 .000076 .000083 .000084 .000102 .000102 .000105 .000116 .000123 .000130	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 00063 . 000696 . 000745 . 000745 . 000842 . 000842 . 000890 . 000933 . 000987	. 02 9653 8 1 KovER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 00406 . 004230 . 004453 . 004453 . 004453 . 004453
85.0 BLOCKING 70.0 71.3 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 76.0 75.0 76.0 75.0	.049926 PROBABILI OUTER J .003092 .004092 .005325 .00803 .010695 .013115 .015874 .018980 .022434 .02432	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .000083 .000083 .000094 .000102 .000105 .000114 .000123 .000150 .000134	. 008 902 • 90 - A INNER(35) . 000558 . 000603 . 000605 . 000696 . 000755 . 000842 . 000890 . 000987 . 001034	. 02 9653 8 1 howER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 004006 . 004230 . 004453 . 004453 . 004453 . 004890 . 005101
85.0 BLOCKING T0.0 71.0 75.0 75.0 75.0 76.0 77.0 78.0 79.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .008603 .010495 .013115 .015874 .018980 .022434 .024232 .030565	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .000083 .000084 .000102 .000102 .000114 .000123 .000154 .000154	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000605 . 00060 . 000744 . 000744 . 000744 . 000744 . 000862 . 000862 . 000857 . 000857 . 001034 . 001080	. 02 9653 8 1 KovER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 00406 . 004230 . 004453 . 004453 . 004453 . 004453
85.0 BLOCKING 70.0 71.3 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 76.0 75.0 76.0 75.0	.049926 PROBABILI OUTER J .003092 .004092 .005325 .00803 .010695 .013115 .015874 .018980 .022434 .02432	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .000083 .000083 .000094 .000102 .000105 .000114 .000123 .000150 .000134	. 008 902 • 90 - A INNER(35) . 000558 . 000603 . 000605 . 000696 . 000755 . 000842 . 000890 . 000987 . 001034	. 02 9653 8 1 howER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 004006 . 004230 . 004453 . 004453 . 004453 . 004890 . 005101
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 75.0 76.0 79.0 80.0 80.0 81.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .008603 .010495 .013115 .015874 .018980 .022434 .024232 .030565	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .000083 .000084 .000102 .000102 .000114 .000123 .000154 .000154	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000605 . 00060 . 000744 . 000744 . 000744 . 000744 . 000862 . 000862 . 000857 . 000857 . 001034 . 001080	. 02 9653 8 1 howER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 004006 . 004230 . 004453 . 004453 . 004453 . 004453 . 004453 . 004453 . 004453 . 004453 . 005101 . 005306
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 80.0 80.0 80.0 80.0 81.0 82.0 83.0	.049926 PROBABILI OUTER I .003092 .04092 .05325 .004020 .008403 .010495 .013115 .015874 .018980 .022434 .022434 .022434 .03365 .034819 .039577	.001743 .001794 TIES FOR C NNER (28) .000070 .000070 .000074 .000083 .000094 .000102 .000102 .000103 .000154 .000155	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000744 . 000744 . 000795 . 000842 . 000842 . 000890 . 000939 . 000987 . 001054 . 001054 . 001124 . 001124	. 02 % 6 \$ 3
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	.049926 PROBABILI OUTER I .003092 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .022434 .022434 .022434 .032457 .034819 .039577 .04-20	.001743 .001794 TIES FOR C NNER (28) .000070 .000074 .000083 .000094 .000102 .000109 .000104 .000134 .000134 .000143 .000145 .000141	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000649 . 000745 . 000842 . 000842 . 000842 . 000859 . 000939 . 000987 . 001054 . 001054 . 001124 . 001124	. 02 % 6 5 3
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 80.0 80.0 80.0 80.0 81.0 82.0 83.0	.049926 PROBABILI OUTER I .003092 .04092 .05325 .004020 .008403 .010495 .013115 .015874 .018980 .022434 .022434 .022434 .03365 .034819 .039577	.001743 .001794 TIES FOR C NNER (28) .000070 .000070 .000074 .000083 .000094 .000102 .000102 .000103 .000154 .000155	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000744 . 000744 . 000795 . 000842 . 000842 . 000890 . 000939 . 000987 . 001054 . 001054 . 001124 . 001124	. 02 % 6 \$ 3
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	.049926 PROBABILI OUTER I .003092 .004092 .005325 .006820 .008603 .010695 .013115 .015874 .018980 .022434 .022434 .022434 .022434 .032457 .034819 .039577 .04-20	.001743 .001794 TIES FOR C NNER (28) .000070 .000074 .000083 .000094 .000102 .000109 .000104 .000134 .000134 .000143 .000145 .000141	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000649 . 000745 . 000842 . 000842 . 000842 . 000859 . 000939 . 000987 . 001054 . 001054 . 001124 . 001124	. 02 % 6 5 3
85.0 BLOCKING COAD 70.0 71.0 72.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 81.0 81.0 81.0 81.0 81.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .00803 .010695 .013115 .015874 .018980 .02434 .026232 .03655 .034819 .039577 .04.926	.001743 .001794 TIES FOR C NNER (28) .000070 .000074 .000083 .000094 .000102 .000109 .000104 .000134 .000134 .000143 .000145 .000141	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 00063 . 000649 . 000744 . 000795 . 000842 . 000842 . 000859 . 000939 . 000987 . 001034 . 001034 . 001034 . 00124 . 001250	. 02 % 6 5 3
85.0 BLOCKING 70.0 71.3 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 75.0 76.0 80.0 81.0 83.0 83.0 83.0 83.0 83.0	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00803 .010895 .013115 .015874 .018980 .022434 .02434 .02432 .034819 .034819 .034877 .04.926	.001743 .001794 TIES FOR C .000070 .000070 .000074 .000083 .000084 .000102 .000104 .000114 .000143 .000145 .000145 .000141 .000155 .000141 .000147	. 008 902 • 90 - A INNER(35) . 000558 . 000603 . 000695 . 000696 . 000755 . 000842 . 000842 . 000890 . 000987 . 001054 . 001054 . 00124 . 001250	. 02 9653 8 1 howER (42) . 002909 . 003121 . 003338 . 003558 . 003782 . 004006 . 004230 . 004453 . 004453 . 004453 . 004453 . 004890 . 005101 . 005306 . 005807 . 005882 . 006659
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 81.0 81.0 81.0 81.0 81.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00803 .010695 .013115 .015874 .018980 .022434 .026232 .030365 .034819 .039577 .04-926 PRGBABILI	.001743 .001794 TIES FOR C .00070 .00070 .00074 .00083 .00083 .00089 .000109 .000109 .000109 .000102 .000102 .000114 .000123 .000145 .000145 .000145 .000141 .000155 .000141 .000157	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000605 . 000605 . 00060 . 000744 . 000744 . 000744 . 000744 . 000744 . 000744 . 000822 . 000822 . 000837 . 001034 . 001034 . 001205 . 001250 • 90 A	. 02 % 6 \$ 3
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 81.0 82.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00820 .008603 .010695 .013115 .015874 .018980 .022434 .026232 .030565 .034819 .039577 .04-926 PRGBABILI	.001743 .001794 TIES FOR C .00070 .00070 .00074 .00083 .00089 .000102 .000102 .000102 .000114 .000123 .000145 .000145 .000145 .000149 .000141 .000155 .000141 .000155	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000649 . 000744 . 000744 . 000744 . 000744 . 000744 . 000744 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000845 . 001034 . 001034 . 00124 . 00124 . 001250 • 90 A	. 02 % 6 \$ 3
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 76.0 75.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .01695 .015115 .015874 .018980 .022434 .02434 .035577 .014926 PRGBABILI OUTER I	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .00083 .000094 .000109 .000109 .000109 .000109 .000115 .000123 .000123 .000149 .000145 .000149	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000696 . 000744 . 000744 . 000795 . 000842 . 000842 . 000890 . 000939 . 000939 . 000987 . 001034 . 001080 . 001124 . 001250 • 90 A INNER (35)	. 02 % 6 \$ \$ 8 1 MovER (42 ) . 002 % 0 % . 003 % 2 . 004 % 5 . 005 % 7 . 005 8 % 7 . 00
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 76.0 75.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .01695 .015115 .015874 .018980 .022434 .02434 .035577 .014926 PRGBABILI OUTER I	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .00083 .000094 .000109 .000109 .000109 .000109 .000115 .000123 .000123 .000149 .000145 .000149	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000696 . 000744 . 000744 . 000795 . 000842 . 000842 . 000890 . 000939 . 000939 . 000987 . 001034 . 001080 . 001124 . 001250 • 90 A INNER (35)	. 02 % 6 \$ 3
85.0 BLOCKING CDAD 70.0 71.0 72.0 72.0 72.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 76.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .01695 .015115 .015874 .018980 .022434 .02434 .035877 .014926 PRGBABILI OUTER I	.001743 .001794 TIES FOR C NNER(28) .000070 .000074 .00083 .000094 .000109 .000109 .000109 .000109 .000114 .000123 .000149 .000145 .000149 .000145 .000149 .000149 .000149 .000149 .000149 .000149 .000149 .000149 .000149 .000149	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000696 . 000744 . 000744 . 000755 . 000842 . 000842 . 000890 . 000939 . 000939 . 000937 . 001034 . 001080 . 001250 • 90 A INARER (35)	. 02 % 6 \$ 3
85.0 BLOCKING CDAD 70.0 71.0 72.0 75.0 74.0 80.0 80.0 80.0 81.0 82	.049926 PROBABILI OUTER I .003092 .04092 .004092 .005325 .00603 .01695 .013115 .015874 .018980 .022434 .022434 .022434 .022434 .03365 .034819 .039577 .046926 PRGBA81L1 OUTER I .003092	.001743 .001794 TIES FOR C NNER(28) .000070 .000070 .000074 .000083 .000084 .000102 .000102 .000104 .000155 .000155 .000141 .000155 .000141 .000155 .000141 .000155 .000141 .000155 .000141 .000155	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000695 . 000696 . 000744 . 000744 . 000795 . 000842 . 000890 . 000939 . 000987 . 001080 . 00124 . 001080 . 001250 • 90 A INARER (35)	. 02 % 6 5 3 • 8 INOMER (42) . 002 % 0 % . 003 5 8 . 003 5 58 . 003 5 58 . 003 5 58 . 004 0 6 . 004 0 7 . 004 0 7 . 005 1 0 1 . 005 5 0 5 . 005 8 7 . 005 8 8 2 . 006 6 5 9 . 006 6 5 9 . 006 6 5 9 . 006 6 5 9 . 006 7 0 . 000 3 7 0
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 83.0 83.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 81.0 82.0 83.0 83.0 84.0 85.0 81	.049926 PROBABILI OUTER I .003092 .004092 .004092 .00803 .010495 .013115 .018980 .02434 .02434 .02434 .02434 .03557 .04926 PRGBABILI OUTER I .003092 .004092	.001743 .001794 TIES FOR C 	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 00063 . 000649 . 000745 . 000644 . 000795 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000850 . 001250 • 90 A INPARER (35) . 000050 . 000055	. 02 % 6 5 3 8 INAMER (42) . 002 % 0 % . 003 7 8 . 003 7 8 . 003 7 8 . 004 6 7 . 005 8 6 . 005 8 6 . 005 8 7 . 005 8 6 . 005 7 . 005 8 6 . 005 7 . 005 8 7 . 005 8 6 . 005 7 . 005 8 7 . 005 8 6 . 005 7 . 005 8 7 . 005
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 83.0 83.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 81.0 82.0 83.0 83.0 84.0 85.0 81	.049926 PROBABILI OUTER I .003092 .004092 .004092 .00803 .010495 .013115 .018980 .02434 .02434 .02434 .02434 .03557 .04926 PRGBABILI OUTER I .003092 .004092	.001743 .001794 TIES FOR C .000070 .000070 .000074 .00003 .000094 .000102 .000102 .000103 .000103 .000103 .000114 .000143 .000145 .000145 .000145 .000145 .000145 .000141 .000145 .000141 .000145 .000141 .000145 .000141 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145 .000145	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 000695 . 000696 . 000744 . 000744 . 000795 . 000842 . 000890 . 000939 . 000987 . 001080 . 00124 . 001080 . 001250 • 90 A INARER (35)	. 02 % 6 5 3 • 8 INOMER (42) . 002 % 0 % . 003 5 8 . 003 5 58 . 003 5 58 . 003 5 58 . 004 0 6 . 004 0 7 . 004 0 7 . 005 1 0 1 . 005 5 0 5 . 005 8 7 . 005 8 8 2 . 006 6 5 9 . 006 6 5 9 . 006 6 5 9 . 006 6 5 9 . 006 7 0 . 000 3 7 0
85.0 BLOCKING CDAO 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 83.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 85.0 71.0 72.0	.049926 PROBABILI OUTER I .003092 .004092 .004092 .00803 .010495 .013115 .018980 .02434 .02434 .02434 .02434 .03557 .04926 PRGBABILI OUTER I .003092 .004092	.001743 .001794 TIES FOR C 	. 008 902 • 90 - A INNER (35) . 000558 . 000603 . 00063 . 000649 . 000745 . 000644 . 000795 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000842 . 000850 . 001250 • 90 A INPARER (35) . 000050 . 000055	. 02 % 6 5 3 8 INAMER (42) . 002 % 0 % . 003 7 8 . 003 7 8 . 003 7 8 . 004 6 7 . 005 8 6 . 005 8 6 . 005 8 7 . 005 8 6 . 005 7 . 005 8 6 . 005 7 . 005 8 7 . 005 8 6 . 005 7 . 005 8 7 . 005 8 6 . 005 7 . 005 8 7 . 005
85.0 BLOCKING 70.0 71.3 72.0 75.0 74.0 80.0 80.0 81.0 82.0 83.0 84.0 85.0 84.0 85.0 84.0 85.0 84.0 85.0 84.0 85.0 84.0 85.0 80.0 81.0 82.0 83.0 75.0 75.0 76.0 77.0 76.0 75.0 76.0 75.0 76.0 75.0 76.0 75.0 76.0 80.0 80.0 80.0 81.0 82.0 83.0 84.0 85.0 75.0 75.0 75.0 76.0 75.0 76.0 77.0 80.0 80.0 80.0 81.0 82.0 82.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 80	.049926 PROBABILI OUTER I .003092 .004092 .005325 .004092 .008403 .010495 .013115 .015874 .018980 .022434 .03577 .04-926 .034817 .049926 .03577 .049926 .03577 .049926 .034817 .049926 .034817 .049926 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049826 .049866 .049866 .049866 .04986	.001743 .001794 TIES FOR C .000070 .000070 .000074 .000083 .000083 .000084 .000102 .000109 .000114 .000123 .000141 .000145 .000145 .000145 .000141 .000147 .000147 .000147 .000147 .000147 .00004 .000004 .000005 .000005 .000005	. 008 902 • 90 - A INNER(35) . 000558 . 000603 . 000605 . 000606 . 000744 . 000755 . 000842 . 000890 . 000987 . 001034 . 001034 . 001034 . 001250 • 90 A INPRER(35) . 00055 . 000055 . 000055	. 02 % 6 \$ \$ 8 1 howER (42 ) . 002 % 0 % . 003 12 1 . 003 338 . 003 5 \$ 8 . 003 7 8 2 . 004 006 . 004 2 \$ 0 . 004 4 \$ 3 . 004 4 \$ 5 . 004 8 9 0 . 005 10 1 . 005 10 1 . 005 10 5 . 005 8 9 7 . 005 8 8 2 . 006 6 5 9 1 howER (42 ) . 000 3 7 0 . 000 4 3 7 . 000 4 7 2
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 81.0 82.0 83.0 84.0 85.0 81.0 82.0 81.0 81.0 82.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .004092 .008403 .010495 .013115 .015874 .018980 .022434 .022434 .022434 .022434 .03577 .04926 .03577 .04926 .034819 .049926 .00592 .00592 .00592 .005825 .005855 .005855 .005855 .005855 .005855 .005855	.001743 .001794 TIES FOR C .000070 .000074 .000083 .000083 .000084 .000102 .000109 .000114 .000123 .000143 .000143 .000145 .000145 .000141 .000145 .000141 .000147 .000147 .000141 .000147	. 008 902 • 90 - A INNER(35) . 000558 . 000603 . 000605 . 000744 . 000755 . 0001250 . 001250 . 0001250 . 000055 . 000045 . 000045 . 000045 . 000045 . 000045	. 02 % 6 \$ 3 8 1 howER (42 ) . 002 % 0 % . 003 12 1 . 003 338 . 003 5 \$ 8 . 003 7 8 2 . 004 00 6 . 004 0 6 . 004 2 30 . 004 4 5 3 . 004 6 7 3 . 005 8 0 7 . 000 5 7 0 . 000 4 7 7 . 000 4 7 . 000
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 81.0 82.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .010695 .013115 .015874 .018980 .022434 .024232 .030545 .034819 .039577 .04-920 .049926 PRGBABILI OUTER I .003092 .004092 .005325 .006820 .008803 .010695	.001743 .001794 TIES FOR C .00070 .00070 .00074 .00083 .00083 .00094 .00010 .00010 .00010 .00010 .00010 .000114 .000123 .000130 .000145 .00004 .000004 .000005 .000005 .000005	. 008 902 • 90 - A INNER (35) . 000558 . 00063 . 000649 . 000696 . 000744 . 000755 . 000842 . 000845 . 00045 . 00045 . 000075	. 02 % 6 \$ 3 8 1 MovER (42 ) . 002 % 0 % . 002 % 0 % . 003 3 38 . 003 5 58 . 003 7 82 . 004 006 . 004 2 30 . 004 4 5 3 . 005 8 0 7 . 005 8 0 7 . 005 8 0 2 . 006 0 5 % . 000 3 7 0 . 000 4 5 7 . 000 3 7 0 . 000 4 5 7 . 000 4 5 7 . 000 4 5 7 . 000 4 7 2 . 000 5 0 8 . 000 5 4 5
85.0 BLOCKING 70.0 71.0 72.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.0 74.0 80.0 81.0 82.0 81.0 82.0 81	.049926 PROBABILI OUTER I .003092 .004092 .005325 .00603 .010695 .013115 .015874 .018980 .022434 .024232 .030545 .034819 .039577 .04-920 .049926 PRGBABILI OUTER I .003092 .004092 .005325 .006820 .008803 .010695	.001743 .001794 TIES FOR C .000070 .000074 .000083 .000083 .000084 .000102 .000109 .000114 .000123 .000143 .000143 .000145 .000145 .000141 .000145 .000141 .000147 .000147 .000141 .000147	. 008 902 • 90 - A INNER (35) . 000558 . 00063 . 000649 . 000696 . 000744 . 000755 . 000842 . 000845 . 00045 . 00045 . 000075	. 02 % 6 \$ 3 8 1 howER (42 ) . 002 % 0 % . 003 12 1 . 003 338 . 003 5 \$ 8 . 003 7 8 2 . 004 00 6 . 004 0 6 . 004 2 30 . 004 4 5 3 . 004 6 7 3 . 005 8 0 7 . 000 5 7 0 . 000 4 7 7 . 000 4 7 . 000

83.0	.039577	.000000	.000000	.000001
84.0	.044620	.000000	.000000	100000.
85.0	.049926	.000000	.000000	.000001
BLOCKIN	G PROBABIL	ITIES FOR	c • 100	A • 7
LOAD	OUTER	INNER (28)	INNER(35)	INNER(42)
80.0	.001992	.0017+5	. 308690	.028751
81.0	. 005109	.0018.9	.009129	.030016
82.0	.006449	.001973	.009580	.051279
83.0	.008030	.002079	.010032	.032534
84.0	.009875		.010482	.033775
		.002185		
85.0	.011990	.002290	.010929	.034997
86.0	.014395	.002395	.011369	.036195
87.0	.017093	.002498	.01:802	.037264
88.0	.020088	.302630	.012224	.038500
89.0	.023378	.002699	.012636	.039600
90.0	.026957	.002796	.013035	.040661
91.0	.030318	.002890	.013421	.041+81
92.0	.0349-8	.002981	.015792	.042658
93.0	. 037334	.0030+8	.014149	. 043592
94.0	.042958	.005152	.014490	.044482
95.0	.048804	. 003233	.014816	.045128
81.0CX1H	PROBABILI			• #
	PROBABILI			
			1NNER(35)	
LOAD				
80.0	.003992	.000167	.001238	.005937
81.0	.005109	.000179	.001319	.006283
82.0	.006449	.000192	.001401	.006632
83.0	.008030	.000204	.001484	.006984
84.0	.009873	.000217	.001568	.007336
85.0	.011990	.000229	.001653	.007687
86.0	.314395	.030242	.001736	. 008034
87.0	.017095	.000255	.001819	.008376
88.0	. 020088	.000267	.001901	.008712
89.0	.025178	.000280	.001982	.009040
90.0	.026957	.000292	.002060	.009359
91.0	.030818	.000103	.002137	.009668
				.009967
92.0	.034948	.000315	.002211	
93.0	.039534	.000326	.002282	.010254
94.0	.043958	.000357	.002351	.010530
95.0	.048904	.000347	.002418	.010794
BLOCKING	PROBABILI	TIES FOR C	• 100 A	- 1
LOAD			INNER(35)	
LOAD	OUTER D	HER (281	INNER (35)	
LOAD	OUTER I	HER (281	INNER (35)	1 HH ER [ 4 2 1
LOAD	OUTER I	WER ( 28 1	1NHER ( 35 )	1NHER ( 421
LOAD 80.0	OUTER 11	.000012	INNER (35)	1HHER (421
LOAD 80.0 81.0	OUTER 11 .003992 .005109	+HER (281 .000012 .000013	INNER (35) .000133 .000140	1H04ER ( 421 . 0008 95 . 00095 9
80.0 81.0 82.0 85.0	OUTER [] .005992 .035109 .306449 .008050	.000012 .000013 .000014 .000015	1NMER (35) .000153 .000140 .000151	1 NOVER ( 4 2 1 . 0008 95 . 00095 9 . 001025
80.0 81.0 82.0 85.0 84.0	OUTER [] .003992 .035109 .306449 .008020 .039873	.000012 .000013 .000014 .000015 .000016	INNER (35) .000130 .000140 .000151 .000161	1H04ER (421 .0008 95 .000959 .001025 .001092 .001159
80.0 81.0 82.0 83.0 84.0 85.0	OUTER 17 .005992 .035109 .306449 .008020 .039875 .011990	+HER(281 .000012 .000013 .000014 .000015 .000016 .000017	INNER (35) .000130 .000140 .000151 .000161 .000172 .000185	1 HAVER (421 .000895 .000959 .001025 .001092 .001159 .001228
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 86.0	OUTER 1 .003992 .035109 .306449 .008010 .039875 .011990 .014395	+HER (28 1 .000012 .000013 .000014 .000015 .000016 .000017 .000018	INWER (35) .000153 .000160 .000151 .000161 .000172 .000183 .000194	1HNER (421 .000895 .000959 .001025 .001092 .001159 .001228 .001296
LOAD 80.0 81.0 82.0 85.0 85.0 86.0 87.0	OUTER 11 .005992 .035109 .306449 .008050 .039875 .011990 .014595 .017395	+HER (28 1 .000012 .000013 .000014 .000015 .000016 .000018 .000019	INNAER (35) .000153 .000140 .000151 .000161 .000172 .000183 .000194 .000205	1 HAVER (421 .000895 .000959 .001025 .001092 .001159 .001228 .001296 .001363
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 86.0 87.3 88.0	OUTER 11 .005992 .005109 .006449 .008050 .009875 .011990 .014595 .017395 .020088	++ER(281 .000012 .000013 .000014 .000015 .000016 .000017 .000018 .000019 .000020	INNAER (35) .000153 .000160 .000151 .000161 .000172 .000183 .000194 .000205 .000216	1000ER(421 .000895 .000959 .001025 .001092 .001159 .00128 .001296 .001363 .001430
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 86.0 87.3 88.0 89.0	OUTER 11 .003992 .035109 .004449 .009812 .01990 .014595 .017393 .02088 .025378	+++ER(281 .000012 .000015 .000015 .000015 .000017 .000017 .000018 .000019 .000020 .000021	. 000153 . 000160 . 000161 . 000161 . 000161 . 000172 . 000183 . 000196 . 000205 . 000216 . 000227	1000ER(421 .000895 .000959 .001025 .001092 .001159 .00128 .001296 .001363 .001430 .001496
LOAD 80.0 81.0 82.0 85.0 84.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 9.0 9.0	OUTER 11 .005992 .005109 .006449 .008050 .009875 .011990 .014595 .017395 .020088	+++ER(281 .000012 .000015 .000015 .000015 .000017 .000018 .000019 .000020 .000021 .000025	. 000153 . 000160 . 000161 . 000161 . 000161 . 000163 . 000196 . 000205 . 000216 . 000227 . 000227	1 HoveR ( 4 2 1 . 0008 95 . 000 95 9 . 001 025 . 001 092 . 001 15 9 . 001 28 . 001 29 6 . 001 36 3 . 001 4 30 . 001 4 96 . 001 5 6 1
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 86.0 87.3 88.0 89.0	OUTER 11 .003992 .035109 .004449 .009812 .01997 .014595 .01739 .02088 .025378	++ER(281 .000012 .000015 .000016 .000016 .000017 .000018 .000020 .000021 .000021 .000025 .000024	. 000153 . 000160 . 000161 . 000161 . 000161 . 000172 . 000183 . 000196 . 000205 . 000216 . 000227	1000ER(421 .000895 .000959 .001055 .001092 .001159 .001296 .001563 .001430 .001496 .001561 .001561 .001561
LOAD 80.0 81.0 82.0 85.0 84.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 9.0 9.0	OUTER 11 .003992 .035109 .00449 .009875 .01990 .014555 .017355 .020288 .025378 .024957	+++ER(281 .000012 .000015 .000015 .000015 .000017 .000018 .000019 .000020 .000021 .000025	INUMER (35) .000153 .000160 .000151 .000161 .000172 .000183 .000194 .000205 .000216 .000227 .000228 .000258	1 HoveR ( 4 2 1 . 0008 95 . 000 95 9 . 001 025 . 001 092 . 001 15 9 . 001 28 . 001 29 6 . 001 36 3 . 001 4 30 . 001 4 96 . 001 5 6 1
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 87.0 90.0 91.0	OUTER 17 .003992 .005109 .006449 .008050 .01990 .014395 .01739 .02088 .025178 .02688 .025488 .026957 .030818 .054948	++ER(281 .000012 .000015 .000016 .000016 .000017 .000018 .000020 .000021 .000021 .000025 .000024	. 000153 . 000160 . 000161 . 000161 . 000161 . 000163 . 000194 . 000205 . 000216 . 000227 . 000227 . 000228	1000ER(421 .000895 .000959 .001055 .001092 .001159 .001296 .001563 .001430 .001496 .001561 .001561 .001561
LOAD 80.0 81.0 82.0 85.0 84.0 85.0 86.0 87.0 88.0 89.0 90.0 91.0 92.0	OUTER 17 .003992 .005109 .006449 .008050 .01990 .014395 .01739 .02088 .025178 .02688 .025488 .026957 .030818 .054948	++ER(281 .000012 .000015 .000014 .000015 .000016 .000017 .000019 .000020 .000021 .000025	INUMER (35) .000153 .000160 .000151 .000161 .000172 .000183 .000194 .000205 .000216 .000227 .000228 .000258	1 HONER (421 .000895 .000959 .001055 .001092 .001159 .001296 .001563 .001496 .001561 .001561 .001561 .001624 .00185
LOAD 80.0 81.0 82.0 85.0 84.0 85.0 86.0 86.0 87.0 88.0 90.0 91.0 92.0 93.0	OUTER 11 .005992 .005109 .006449 .008010 .01990 .014395 .01733 .02088 .02457 .036818 .024928 .019314 .043958	++ER(281 .000012 .000015 .000014 .000015 .000016 .000017 .000019 .000020 .000021 .000025 .000025 .000026	. 000153 . 000160 . 000161 . 000161 . 000161 . 000172 . 000183 . 000194 . 000205 . 000216 . 000227 . 000228 . 000258 . 000258	1 HONER (421 .000895 .000959 .001025 .001092 .001159 .00128 .001296 .001363 .001496 .001551 .001624 .00185 .001455
LOAD 80.0 81.0 82.0 85.0 84.0 85.0 86.0 87.3 88.0 89.0 90.0 91.0 92.0 93.0 94.0	OUTER 11 .005992 .005109 .006449 .008010 .01990 .014395 .01733 .02088 .02457 .036818 .024928 .019314 .043958	++ER(281 .000012 .000013 .000014 .000015 .000016 .000017 .000019 .000020 .000021 .000025 .000025 .000025 .000026 .000027	INUMER (35) . 000153 . 000160 . 000151 . 000161 . 000172 . 000183 . 000194 . 000205 . 000216 . 000227 . 000258 . 000258 . 000268 . 000277	1 HONER (421 .000895 .000959 .001025 .001092 .001159 .00128 .001296 .001363 .001496 .001551 .001624 .00185 .001745 .001802
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 90.0 91.0 92.0 92.0 95.0	OUTER 1 .005992 .005109 .006449 .008050 .01975 .011990 .014595 .017335 .02068 .020588 .024577 .03688 .054958 .048804	+++ E R (28 1 . 000 0 12 . 000 0 13 . 000 0 14 . 000 0 14 . 000 0 14 . 000 0 14 . 000 0 17 . 000 0 18 . 000 0 19 . 000 0 20 . 000 0 21 . 000 0 23 . 000 0 25 . 000 0 25 . 000 0 25 . 000 0 25 . 000 0 25	INUMER (35) . 000153 . 000160 . 000151 . 000161 . 000172 . 000183 . 000194 . 000205 . 000216 . 000227 . 000258 . 000258 . 000268 . 000277	1 HONER (421 .000895 .000959 .001055 .001092 .001159 .00128 .001296 .001363 .001430 .001430 .00144 .001561 .001561 .001624 .001855 .001857
LOAD 80.0 81.0 82.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 87.3 88.0 89.0 90.0 91.0 92.0 95.0	OUTER 11 .003992 .035109 .00449 .009010 .039873 .011990 .014595 .01733 .020088 .025378 .024557 .030818 .024557 .030818 .024557 .030818 .024557 .030818 .029514 .043958 .048804	++ER(281 .000012 .000013 .000014 .000015 .000016 .000018 .000019 .000020 .000021 .000025 .000024 .000025 .000024 .000025	. 000153 . 000153 . 000140 . 000151 . 000161 . 000161 . 000172 . 000183 . 000194 . 000205 . 000214 . 000227 . 000258 . 000258 . 000258 . 000258 . 000287	1 HoveR (421 .000895 .000959 .001025 .001092 .001159 .00128 .00126 .00126 .00126 .001430 .001430 .001454 .001561 .001624 .00185 .001745 .001857

LOAD		INNER(28)		
80.0	.003992	.000001	.000010	.000102
81.0	.005109	.000001	.000011	.000111
82.0	.006449	.000001	.000012	.000120
83.0	.068030	. 300001	.000013	.000129
84.0	.009875	. 300001	.000014	.000138
85.0	.011990	. 000001	.000015	.000148
80	.014395	.000001	.000017	.000158
87.0	017093	.000001	.000018	. 300167
88.0	.023378	.000001	.000019	.000,77
89.0 90.3	.026957	.000301	.000020	.000186
91.0	.030818	. 300001	.000022	.000205
92.0	.034948	.000001	.000023	.000214
93.0	.039554	.000302	.000024	.000223
94.0	.043958	.000002	.000025	.000231
95.0	.048804	.000002	.000026	.000239
		ITIES FOR C		+ 11
LOAD			INNER(35)	INNER (42)
	.003992	. 000000		
80.0 81.0	.005109	.000000	.000001	.000009
82.0	.006469	.000000	.000001	.000010
83.0	.008030	.000000	.000001	.000312
84.0	.009873	.000000	.000001	.000013
85.0	.011990	. 000000	.000001	.000014
86.0	.014395	. 000000	.000001	.000015
87.0	.017095	.000000	.000001	.000016
88.0	.020088	. 200000	.000001	.000017
89.0	.023378	. 100000	.000001	. 200018
90.0	.026957	. 000000	.000001	. 000019
91.0	.030818	. 300000	.000002	.000020
92.0	. 334948	. 300000	. 000002	.000021
93.0	.039534	. 300000	.000002	.000022
94.0	.043958	. 300000	.000002	.000023
95.0	.048804	.000000	.00002	.000024
al ocy two		TIES FOR C		• 12
LOAD			INNER (351	
80.0	.003992	.000000	.000000	.000001
81.0	.005109	.000000	.000000	.000001
82.0	.006449	.000000	.000000	100000.
83.0	.008030	.000000		.000001
84.0	. 00 98 7 5	.000000		.030001
85.0	.011990	.000000		. 3 3 8 8 8 1
a6.0 87.0	.014395	. 000000		.000301
88.0	.017093	.000000		.000001
89.0	.023378	.000000		. 000001
90.0		.000000		.000001
91.0	.030918			. 000002
				. 0 0 0 0 0 2
93.0			.000000	. 0 0 0 0 0 2
94 0		.000000	000000	. 30 0 0 0 2
95.0			.000000	000002
			= 100 A -	
			HNER (35)	
		.000000		.000000
				000000
			.000000	

109 0	.012565	.000108	.000991	.005535
110.0	.014434	.000115	.001053	. 00574 -
111.0	.016717	.000118	.001075	.005950
112.0	.019210	.000123	.001116	.006153
115.0	.021915	.000128	.001157	.006351
114.0	.024823	.000155	.001196	.006544
115.0	.027934	.000137	.001235	.00+752
BLOCK 1M	G PROBABIL	ITIES FOR	C + 125	A + 10
LOAD	OUTER	1HHER (29)	INNER(SS)	INNER (42)
:00.0	.001989	.000005	.000066	.000559
101.0	.002544	.000005	.000071	.000596
102.0	.003217	.000005	.000076	.000+35
103.0	.004021	.000006	.000081	.000674
104.0	.004971	.000006	. 000086	.000714
105.0	.006082	.000007	.000092	.000756
106.0	.007366	.000007	.000097	.000797
107.0	.008835	.000007	.000103	. 000839
108.0	.010498	.000008	.000109	.000881
109.0	.012363	.000008	.000114	.000924
110.0	.014454	.000009	.000120	.000366
111.0	.016717	.000009	.000126	.001008
112.0	.019210	.000010	.000131	.0010-9
113.0	.021913	.000010	.000137	.001089
114.0	.024823	.000011	.000142	.001129
115.0	.027934	.000011	.000148	.001168
			= 125 A	• 11
LOAD			1NNER (35)	INNER ( 42 )
100.0				
100.0	.001989	. 300000	.000006	.000067
101.0	.001989		.000006	.000067 .000072
101.0	.001989 .002544 .003217	.000000 .000000	.000006 .000006 .000006	.0000+7 .000072 .000077
101.0 102.0 103.9	.001989 .002544 .003217 .004021	.000000 .000000 .000000	.000006 .000006 .000006 .300007	.000067 .000072 .000077 .000083
101.0 102.0 103.9 104.0	.001989 .002544 .003217 .004021 .004971	. 300000 . 000300 . 000000 . 000000	.000006 .000006 .000006 .000007 .000008	.0000+7 .000072 .000077 .0000#3 .0000#3
101.0 102.0 103.0 104.0 105.0	.001989 .002544 .003217 .004021 .004971 .006082	. 300000 . 000300 . 000000 . 000000 . 000000	.000006 .000006 .000006 .000007 .000008	.0000+7 .000072 .000077 .000083 .000089 .000095
101.0 102.0 103.0 104.0 105.0 106.0	.001989 .002544 .003217 .004021 .004971 .006082 .007566	. 300000 . 000300 . 000000 . 000000 . 000000 . 000000	.000006 .000006 .000006 .000007 .000008 .000008	.0000+7 .000072 .000077 .000083 .000089 .000095 .000101
101.0 102.0 103.0 104.0 105.0 106.0	.001989 .002544 .003217 .004021 .004971 .006082	. 300000 . 000300 . 000000 . 000000 . 000000	.000006 .000006 .000006 .000007 .000008 .000008 .000009 .000009	.0000+7 .000072 .000077 .000083 .000089 .000095
101.0 102.0 103.0 104.0 105.0 106.0	.001989 .002544 .003217 .004021 .004971 .006082 .007566 .008835	.000000 .000000 .000000 .000000 .000000 .000000	.000006 .000006 .000006 .000007 .000008 .000008	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107
101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0	.001989 .002544 .003217 .004021 .004971 .006082 .007566 .008835 .010498	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113
101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012563	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.00000 .00000 .00000 .00000 .000008 .000008 .000009 .000009 .000009	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000119
101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012563 .014434	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .00001	.0000*7 .000072 .000077 .000089 .000089 .000095 .000101 .000107 .000113 .000119 .000126
101.0 102.0 103.0 104.0 105.0 105.0 105.0 107.0 108.0 109.0 110.0 111.0 112.0	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012363 .014434 .014717 .019210	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00001 . 000001 . 000001	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .000011 .000011 .000012	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000119 .000126
101.0 102.0 103.0 104.0 105.0 105.0 105.0 107.0 108.0 109.0 110.0 111.0 112.0	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012363 .014434 .014717 .019210	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 1 . 00000 1 . 00000 1 . 00000 1 . 00000 1 . 00000 1	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000010 .000011 .000011 .000012 .000013	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000119 .000126 .000152 .000138
101.0 102.0 103.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 107.0 108.0 110.0 111.0 112.0 113.0 114.0	.001989 .002544 .003217 .004021 .004971 .006082 .007564 .008835 .010498 .012563 .014434 .016717 .019210 .021913 .024823	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 1 . 000001 . 000001 . 000001 . 000001	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .000010 .000011 .000012 .000012	.0000*7 .000072 .000077 .000083 .000089 .000101 .000107 .000113 .000119 .000126 .000122 .000138 .000144 .000150
101.0 102.0 103.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 107.0 108.0 110.0 111.0 112.0 113.0 114.0	.001989 .002544 .003217 .004021 .004971 .006082 .007564 .008835 .010498 .012563 .014434 .016717 .019210 .021913 .024823	. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 1 . 000001 . 000001 . 000001 . 000001	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .000010 .000011 .000011 .000012 .000015 .000015	.0000*7 .000072 .000077 .000083 .000089 .000101 .000107 .000113 .000119 .000126 .000122 .000138 .000144 .000150
101.0 102.0 103.0 104.0 105.0 105.0 107.0 107.0 109.0 110.0 111.0 112.0 115.0 114.0	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014434 .016717 .019210 .021913 .024823 .027934	. 300000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 1 . 00000 1 . 00000 1 . 00000 1 . 00000 1 . 00000 1	.000004 .000004 .000007 .000008 .000008 .000009 .000009 .000010 .000010 .000011 .000011 .000011 .000012 .000015 .000015 .000014	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000119 .000124 .000152 .000154 .000154
101.0 102.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 107.0 108.0 109.0 110.0 111.0 112.0 114.0 115.0 SLOCKING	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012363 .014434 .014717 .019210 .021913 .024823 .027934	. 300000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001 . 000001	.000004 .000004 .000004 .000008 .000008 .000008 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000013 .000014	.0000*7 .000072 .000077 .000089 .000095 .000101 .000107 .000113 .000113 .000126 .000152 .000138 .000144 .000150 .000156
101.0 102.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 107.0 108.0 109.0 110.0 111.0 112.0 114.0 115.0 8LOCK1HG	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012363 .01434 .01434 .016717 .019210 .021913 .024823 .027934	. 300000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001	.000004 .000004 .000007 .000008 .000008 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000015 .000014	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000114 .000152 .000138 .000144 .000150 .000156
101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0 111.0 112.0 114.0 115.0 8LOCKING	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012363 .01434 .01434 .016717 .019210 .021913 .024823 .027934 PR084B1L1	. 300000 . 00000 . 000001 . 0000000000	.000004 .000004 .000007 .000008 .000008 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000013 .000015 .000014	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000114 .000126 .000126 .000144 .000150 .000156
101.0 102.0 103.0 104.0 105.0 104.0 105.0 105.0 107.0 108.0 107.0 108.0 109.0 110.0 111.0 112.0 114.0 115.0 144.0 115.0 144.0 115.0 144.0 115.0 115.0 116.0 117.0 10	.001989 .002544 .003217 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .012498 .012563 .012417 .019210 .021913 .0224823 .027934 PRO8AB1L1 OUTER 1)	.00000 .000000	.000004 .000004 .000007 .000008 .000009 .000009 .000009 .000010 .000010 .000011 .000011 .000011 .000012 .000013 .000014 * 125 A	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000119 .000126 .000126 .000128 .000144 .000150 .000156
101.0 102.0 103.0 104.0 105.0 105.0 105.0 105.0 107.0 108.0 107.0 108.0 107.0 108.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 114.0 115.0 114.0 115.0 115.0 114.0 115.0 105.0 106.0 107.0 108.0 10	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014434 .01434 .014717 .019210 .021913 .024823 .027934 PR08481L1 PR08481L1	. 300000 . 00000 . 00000	.000004 .000004 .000007 .000008 .000009 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000013 .000013 .000014	.0000*7 .000072 .000077 .000083 .000089 .000095 .000107 .000107 .000113 .000124 .000124 .000125 .000144 .000150 .000156
101.0 102.0 103.0 104.0 105.0 105.0 105.0 107.0 108.0 107.0 108.0 107.0 108.0 107.0 110.0 111.0 112.0 114.0 115.0 114.0 115.0 114.0 115.0 115.0 104.0 105.0 106.0 107.0 108.0 100.0 10	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014494 .012563 .014434 .016717 .019210 .021915 .024823 .027934 PRO8481L1 DUTER 10 .001389 .002544	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .000010 .000010 .000011 .000012 .000013 .000013 .000014 .000014 .000000 .000000 .000000	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000113 .000124 .000124 .000124 .000124 .000124 .000124 .000124 .000124 .000124 .000150 .000154
101.0 102.0 103.0 104.0 104.0 105.0 104.0 105.0 105.0 107.0 108.0 109.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 SLOCKING SLOCKING 100.0 100	.001989 .002544 .003217 .004021 .004021 .006082 .007566 .008835 .010498 .012563 .014434 .014717 .019210 .021913 .024823 .022934 PR08481L1 PR08481L1 .001389 .002544 .002544	.00000 .00000	.000004 .000004 .000007 .000008 .000009 .000009 .000009 .000010 .000011 .000011 .000011 .000012 .000015 .000015 .000015 .000015 .000015 .000015 .000000 .000000 .000000 .000000	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000119 .000124 .000152 .000152 .000154 .000154 .000154 .000154 .000154
101.0 102.0 103.0 104.0 105.0 104.0 105.0 105.0 105.0 107.0 107.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014434 .01434 .014717 .019210 .021913 .024823 .027934 PRO8AB1L1 PRO8AB1L1 .001389 .002544 .003217 .004021	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	.000004 .000004 .000004 .000008 .000008 .000009 .000009 .000010 .000010 .000011 .000011 .000011 .000012 .000015 .000015 .0000014	.0000*7 .000072 .000077 .00003 .000089 .000101 .000107 .000113 .000113 .000114 .000152 .000154 .000155 .000154 .000156 .12
101.0 102.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 107.0 108.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 200 2000 2	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012363 .01434 .01434 .014717 .019210 .021913 .024823 .022934 PRO8AB1L1 PRO8AB1L1 .001389 .002544 .003217 .004021 .004971	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00000 .00000 .00000 .00000 .00000 .00000	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00000 .00000 .00000 .00000 .00000 .00000	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000119 .000126 .000126 .000128 .000144 .000150 .000156 * 12
101.0 102.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 107.0 108.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 200 2000 2	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012363 .01434 .01434 .014717 .019210 .021913 .024823 .022934 PRO8AB1L1 PRO8AB1L1 .001389 .002544 .003217 .004021 .004971	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .00000 .00000 .00000 .00000 .00000 .00000	.000004 .00004 .00006 .00008 .00008 .00008 .00009 .00000 .000010 .000011 .000011 .000012 .000013 .000014 * 125 A * 125 A	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000114 .000152 .000152 .000154 .000155 .000154 .000156 .000156 .0000156 .000006 .000006 .000008 .000008 .000009
101.0 102.0 103.0 104.0 105.0 104.0 105.0 107.0 108.0 108.0 110.0 111.0 112.0 114.0 115.0 114.0 115.0 105.0 104.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0 115.0 108.0 109.0 108.0 109.0 110.0 110.0 115.0 100.0 10	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012363 .01434 .01434 .014717 .019210 .021913 .024823 .027934 PRO84B1L1 OUTER 19 .001389 .002544 .003217 .004021 .00544 .00544 .00544 .00544 .00544	. 300000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	.000004 .000004 .000008 .000008 .000009 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000013 .000015 .000014 .000000 .000000 .000000 .000000 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000114 .000126 .000126 .000128 .000144 .000150 .000156 * 12 .000006 .000007 .000008 .000008 .000009 .000009
101.0 102.0 103.0 104.0 105.0 104.0 107.0 107.0 107.0 107.0 107.0 110.0 111.0 112.0 114.0 115.0 114.0 115.0 105.0 100.0 101.0 102.0 103.0 104.0 105.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 107.0 10	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .01434 .01434 .014717 .019210 .021913 .024823 .027934 PRO8AB1L1 OUTER 19 .001389 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .002544 .00254 .0027 .004021 .00254 .00254 .00254 .002556556 .0025565656565656565656565656565656565656	. 300000 . 00000 . 00000	.000004 .000004 .000008 .000008 .000009 .000009 .000009 .000010 .000010 .000011 .000011 .000012 .000013 .000015 .000015 .000001 .000000 .000000 .000000 .000001 .000001 .000001 .000001	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000126 .000126 .000128 .000144 .000150 .000156 .000156 .000156 .00007 .000007 .000008 .000008 .000009 .000009 .000001
101.0 102.0 103.0 104.0 105.0 104.0 107.0 108.0 107.0 108.0 110.0 112.0 112.0 112.0 113.0 114.0 115.0 	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014434 .01434 .014434 .014434 .014434 .014434 .014434 .019210 .021915 .024823 .027934 PRO8AB1L1 .001389 .002544 .003217 .004021 .004021 .004021 .004021 .00454 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00555 .00682 .007366 .008835 .010488	. 300000 . 00000 . 00000	.000004 .000004 .000004 .000008 .000008 .000009 .000009 .000010 .000011 .000011 .000011 .000012 .000013 .000014 - 125 A - 125 A - 125 A	.0000*7 .000072 .000077 .000083 .000089 .000095 .000101 .000107 .000113 .000119 .000124 .000152 .000138 .000144 .000150 .000156 .000156 .000015 .000008 .000008 .000008 .000009 .000009 .0000011 .000012
101.0 102.0 103.0 104.0 105.0 104.0 107.0 108.0 107.0 108.0 110.0 111.0 112.0 112.0 113.0 114.0 115.0 BLOCKING BLOCKING 100.0 101.0 102.0 103.0 104.0 105.0 1	.001989 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .014434 .01434 .014434 .014434 .014434 .014434 .014434 .019210 .021915 .024823 .027934 PRO8AB1L1 .001389 .002544 .003217 .004021 .004021 .004021 .004021 .00454 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00554 .00555 .00682 .007366 .008835 .010488	. 300000 . 00000 . 00000	.000004 .000004 .000004 .000008 .000008 .000009 .000009 .0000010 .000010 .000011 .000011 .000011 .000015 .000015 .000015 .000000 .000000 .000000 .000000 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001	.0000*7 .000072 .000077 .00003 .000095 .000101 .000107 .000113 .000119 .000126 .000152 .000152 .000156 * 12 1NHER(42) .000007 .000007 .000008 .000008 .000008 .000009 .000009 .000010 .000011 .000012
101.0 102.0 103.0 104.0 105.0 104.0 105.0 107.0 110.0 111.0 112.0 111.0 112.0 114.0 115.0 	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012563 .014434 .01434 .014717 .019210 .021913 .024823 .027934 PR08481L1 PR08481L1 .001389 .002544 .003217 .004021 .004021 .004971 .004022 .007366 .002544 .00554 .005554 .005555 .005554 .005554 .005554 .0055555 .0055555 .0055555555	. 300000 . 00000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 000000 . 0000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 000000 . 0000000 . 000000 . 0000000 . 0000000 . 000000 . 00000000	.000004 .000004 .000004 .000008 .000008 .000009 .000009 .000010 .000011 .000011 .000011 .000012 .000013 .000013 .000001 .000000 .000000 .000000 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001	. 0000 *7 . 0000 72 . 000077 . 00003 . 000089 . 000095 . 000101 . 000107 . 000113 . 000113 . 000124 . 000152 . 000154 . 000156 . 12 INMER (<2) . 000008 . 000008 . 000008 . 000009 . 000009 . 000009 . 000009 . 000009 . 000009 . 000009 . 000009 . 000009 . 000008 . 000009 . 0000010 . 000012 . 0000
101.0 102.0 103.0 104.0 105.0 104.0 105.0 107.0 110.0 111.0 112.0 111.0 112.0 114.0 114.0 115.0 	.001989 .002544 .003217 .004021 .004021 .004021 .006082 .007566 .008835 .010498 .012563 .014434 .014717 .019210 .021913 .024823 .027934 .027934 .001389 .002544 .003217 .004021 .004982 .002544 .00582 .002471 .006082 .007366 .00835 .010498 .012543 .014434 .016717	. 300000 . 00000 . 00000	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00001 .00001 .00001 .00001 .00001 .00001 .00001 .000000	.0000*7 .000072 .000077 .00003 .000095 .000101 .000107 .000113 .000119 .000126 .000152 .000152 .000156 * 12 1NHER(42) .000007 .000007 .000008 .000008 .000008 .000009 .000009 .000010 .000011 .000012
101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 110.0 111.0 112.0 114.0 115.0 BLOCK1HG BLOCK1HG 0 103.0 104.0 103.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 105.0 106.0 107.0 107.0 108.0 109.0 100.0 100.0 100.0 109.0 100.0 109.0 100.0 109.0 101.0 109.0 101.0 109.0 101.0 101.0 101.0 109.0 101.0 101.0 101.0 109.0 101.0 100.0	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012563 .014434 .01434 .014717 .019210 .021913 .024823 .027934 PRO8AB1L1 PRO8AB1L1 .001389 .002544 .003217 .004021 .004021 .004971 .006082 .007566 .00835 .016458 .01434 .014217 .014210	. 300000 . 00000 . 000000 . 00000 . 000000 . 00000000	.000004 .00004 .000006 .000008 .000008 .000009 .000009 .000010 .000011 .000011 .000011 .000012 .000015 .000014 * 125 A * 125 A * 125 A * 125 A * 125 A * 125 A * 125 A	.0000*7 .000072 .000077 .00003 .000089 .000095 .000101 .000107 .000113 .000119 .000126 .000126 .000152 .000138 .000144 .000150 .0000156 .000007 .000008 .000007 .000008 .000007 .000008 .000009 .000009 .000010 .000012 .000012 .000012 .000014
101.0 102.0 103.0 104.0 105.0 104.0 105.0 107.0 108.0 110.0 111.0 112.0 113.0 114.0 115.0 2000 2000 2000 2000 100.0 101.0 102.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 105.0 106.0 107.0 108.0 107.0 107.0 108.0 109.0 109.0 109.0 109.0 109.0 109.0 109.0 109.0 110.0 111.0 112.0 109.0 100.0 109.0 109.0 100.0 109.0 100.0 109.0 100.0	.001989 .002544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012363 .01434 .01434 .014717 .019210 .021913 .024823 .027934 PRO8AB1L1 PRO8AB1L1 .001389 .002544 .003217 .004082 .004971 .004082 .004971 .006082 .007386 .008835 .014434 .014717 .019210 .01910 .01910	. 300000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00001 . 00000 . 000000 . 00000 . 000000 . 00000000	.000004 .00004 .000006 .000008 .000008 .000009 .000009 .000010 .000011 .000011 .000012 .000012 .000015 .000014 * 125 A * 125 A * 125 A * 125 A * 125 A * 125 A * 125 A	.0000*7 .000072 .000077 .00003 .00003 .00003 .000101 .000107 .000113 .000113 .000126 .000126 .000126 .000152 .000138 .000144 .000156 .0000156 .000007 .000008 .000007 .000008 .000007 .000008 .000007 .000008 .000007 .000008 .000007 .000012 .000012 .000012 .000014 .000014 .000014 .000014 .000014 .000014 .000014

83.0	.008030	000000	.000000	. 000000
84.0	.009873	. 000000	.000000	. 000000
85.0	.011990	. 0 0 0 0 0 0	. 000000	.000000
86.0	.014395	. 000000	.000000	.000000
87.0	.017093	.000000	.000000	.000000
88.0	. 020088	.000000	.000000	.000000
89 0	.023378	. 000000	.000000	. 000000
	.026957	. 000000		
90 0			.000000	.000000
91.0	010818	. 0 0 0 0 0 0	.000000	.000000
92.0	0349-8	.000000	. 000000	.000000
93.0	.039334	.000000	. 000000	.000000
94 D	.043958	.00000	.000000	. 0 0 0 0 0 0
95.3	048804		.000000	.000000
BLOCK1N0	PACBABIL	ITIES FOR	C + 125 A	4 7
LCAD	OUTER	[NNER (28)	INNER(35)	INNER (42)
100 0	.001989	.005526	.023114	.064527
101.0	.002544	.005776	.023994	.066509
102.0	.005217	.006029	.024879	.068480
103.0	.004021	.00+185	.025766	.070452
104.0	.004971	.00+542	.026652	.072401
105.0	.006082	.00.800	.027534	.074328
106 0	007366	. 007057	.028410	.076226
107.0	.008835	.007314	.029276	.078091
108.0	.010498	.007508	.030129	.079917
109.0	. 0123+3	.007819	.030966	.081699
110.0	.014454	.008066	.051786	. 08 3 4 3 3
111.0	.016717		.032586	
		.008308		.085115
112.0	.019210	.008545	.033345	.086742
113.0	.021913	.008775	.034119	.088312
114.0	.024823	.008999	.054849	.089823
115.0	. 327954	.009217	. 015553	.091274
BLOCK1NG	PR08481L	ITLES FOR C	+ 125 A	- 8
BLOCK1NG		ITIES FOR C		• 8
LOAD	OUTER	1 NONER (28)	1NNER (\$5)	INHER(42)
LOAD	OUTER	1 NONER (28)	1NNER (\$5)	
LOAD	OUTER	1 NONER (28)	1NNER (\$5)	INHER(42)
LOAD	OUTER	LHHER (28)	1NNER(\$5)	1NHER (42)
LOAD 100.0	OUTER	1×04ER(28)	1NHER(35)	1NHER(42)
LOAD 100.0 101.0	OUTER :	.000696 .000736	1 XANER (35) .004431 .004+53	INHER(42) .017927 .018693
LOAD 100.0 101.0 102.0	OUTER .001999 .0025	.000696 .000736 .000776	1NHER (35) .004431 .004679	1NNER(42) .017927 .018093 .019465
LOAD 100.0 101.0 102.0 103.0	OUTER .001999 .0025~~ .003217 .004021	.000696 .000736 .000776 .000817	1NHER(35) .004431 .004679 .005108	1NHER ( 4 2 ) .017927 .018093 .019465 .020243
LOAD 100.0 101.0 102.0 103.0 104.0	OUTER .001999 .002544 .003217 .004021 .004021	.000696 .000756 .000776 .000817 .000859	1NHER(\$5) .004431 .004675 .004879 .005108 .005339	1NHER (42) .017927 .018093 .019465 .020243 .021022
LOAD 100.0 101.0 102.0 105.0 104.0 105.0 106.0	OUTER 001999 002544 003217 004021 004971 004082 007566	.000696 .000756 .000776 .000817 .000859 .000902 .00094	1NHER(35) .004431 .004453 .004879 .005108 .005339 .005572 .005805	INHER (42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0	OUTER .001999 .002544 .003217 .004021 .004971 .006082	.000696 .000756 .000776 .000817 .000859 .000902 .00094	1NHER(35) .004431 .004431 .004679 .005108 .005339 .005572 .005805 .006038	1NHER ( 42 ) .017927 .018+93 .019465 .020243 .021022 .021801
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0	OUTER .001999 .002544 .003217 .004021 .004971 .006082 .007566 .008835 .010498	.000494 .000754 .000774 .000817 .000859 .000902 .000944 .000987 .001030	1 NHER ( 55 ) .004431 .004635 .004679 .005108 .005339 .005522 .005805 .00638 .00638	.017927 .01893 .019465 .020243 .021022 .021801 .022575 .023344
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0	OUTER .001999 .002544 .003217 .004021 .004971 .006082 .007566 .008835 .010498	.000696 .000736 .000776 .000817 .000859 .000902 .0009×4 .000967	1 NHER ( 55 ) .004431 .00467 .005108 .005108 .005572 .005805 .006038 .006249 .006498	.017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0	OUTER .001999 .025-4 .003217 .004021 .004971 .004082 .00756 .00885 .010498 .012563 .01454	.000494 .000754 .000774 .000877 .000857 .000902 .000904 .000987 .001030 .001072 .00115	1NHER(55) .004431 .004431 .00455 .004879 .005108 .005572 .005805 .006038 .006269 .006498 .006724	1NHER(42) .017927 .018+93 .019465 .02043 .021022 .021801 .022575 .022344 .024103 .024850 .025584
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0 111.0	OUTER .001999 .025 .003217 .004021 .004021 .004971 .004981 .007566 .00835 .010498 .012563 .014454 .014717	.000696 .000756 .000776 .000859 .000902 .00094 .000987 .001030 .001072 .001155 .001156	1NHER(55) .004431 .004431 .00455 .004879 .005108 .005572 .005805 .006038 .006249 .006498 .006724 .006946	1NHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .024850 .025584 .024301
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 105.0 107.0 108.0 110.0 111.0 111.0 111.0	OUTER .001999 .025 .003217 .004021 .004021 .004971 .007566 .00835 .010498 .012563 .014454 .014717 .019210	.000696 .000756 .000776 .000817 .000859 .000902 .000967 .001030 .001030 .001072 .001115 .001156 .301197	1NHER(55) .004431 .004431 .004879 .005108 .005339 .005572 .005805 .006038 .006249 .006498 .006498 .006448 .006448 .006446 .007164	INHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .02450 .025584 .024301 .027000
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 105.0 107.0 108.0 110.0 111.0 111.0 111.0 111.0	OUTER .001999 .025 .003217 .004021 .004971 .004971 .007566 .008835 .010498 .012563 .014454 .014717 .019210 .021913	.000696 .000756 .000776 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .00115 .00115 .001154 .001197 .001238	1NHER(55) .004431 .004431 .004879 .005108 .005339 .005572 .005805 .006038 .006249 .006498 .006448 .006448 .006446 .007164 .007164	1NHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .02403 .024850 .024584 .024301 .027000 .027679
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 110.0 111.0 111.0 111.0 111.0 111.0 111.0	OUTER .001999 .02544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012563 .01454 .014717 .019210 .021913 .024823	.000696 .000756 .000776 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .00115 .001154 .001154 .001228 .001277	1NHER(55) .004431 .004675 .005108 .005108 .005572 .005805 .006038 .006249 .006498 .006498 .006498 .006498 .006724 .006946 .007377 .007584	.017927 .01893 .019465 .020243 .021801 .022575 .023344 .024103 .02450 .024504 .022575 .023584 .024504 .024504 .024504 .022575 .023584 .024504 .024504 .024504 .022575 .023584 .02457 .024504 .02457 .022575 .023584 .02457 .02457 .02457 .022575 .022575 .022575 .02357 .02457 .022575 .02357 .02575 .02357 .02575 .027757 .027757 .027757 .027757 .027757 .027757 .027757 .027757 .0275757 .0275757 .0275757 .0275757 .0275757 .0275757 .0275757 .0275777 .027577777777777777777777777777777777777
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 110.0 111.0 111.0 111.0 111.0 111.0 111.0	OUTER .001999 .02544 .003217 .004021 .004021 .004082 .007566 .008835 .010498 .012563 .01454 .014717 .019210 .021913 .024823	.000696 .000756 .000776 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .00115 .00115 .001154 .001197 .001238	1NHER(55) .004431 .004675 .005108 .005108 .005572 .005805 .006038 .006249 .006498 .006498 .006498 .006498 .006724 .006946 .007377 .007584	.017927 .01893 .019465 .020243 .021801 .022575 .023344 .024103 .02450 .024504 .024584 .024501 .024501 .024501 .024501 .024501 .024501 .024679 .028337
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 109.0 109.0 110.0 111.0 111.0 113.0 114.0 115.0	OUTER .001999 .025-4 .003217 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .01454 .01454 .014717 .019210 .021913 .024823 .027934	.000494 .000754 .000754 .000774 .000817 .000859 .000902 .000944 .000987 .001030 .001072 .001154 .001154 .001278 .001278 .001315	1 Nov ER ( 15 ) .004 431 .004 633 .004 873 .005108 .005108 .005522 .005805 .00638 .006269 .006498 .006498 .006498 .006464 .007164 .007164 .007784	1NHER(42) .017927 .018+93 .019465 .020243 .021801 .022575 .023344 .024103 .024850 .02584 .024301 .02584 .024301 .027000 .027479 .028973
LOAD 100.0 101.0 102.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 110.0 111.0 111.0 112.0 114.0 115.0	OUTER .001999 .025-4 .003217 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .01454 .014717 .019210 .021913 .024823 .027954	.000494 .000754 .000754 .000776 .000817 .000859 .000902 .000944 .000987 .001030 .001072 .001155 .001154 .001278 .001277 .001315	1 Nove R ( 15 ) . 004 431 . 004 635 . 004 675 . 005 108 . 005 108 . 005 572 . 005 805 . 006 038 . 006 24 9 . 006 498 . 007 164 . 007 584 . 007 784	1NHER(42) .017927 .018+93 .019465 .020243 .021002 .021801 .022575 .023344 .024103 .024850 .025584 .024301 .027000 .027679 .028973
LOAD 100.0 101.0 102.0 103.0 104.0 105	OUTER .001999 .025-4 .003217 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .01454 .01454 .014717 .019210 .021913 .024823 .027954 PROBABIL1	.000494 .000734 .000734 .000734 .000817 .000817 .000902 .000944 .000987 .001030 .001072 .001135 .001135 .001238 .001277 .001315 TIES FOR C	1 NHER (35) .004431 .004431 .004679 .005108 .005572 .005805 .006498 .006498 .006498 .006498 .006498 .006498 .006498 .006498 .006724 .006498 .007164 .007164 .007584 .007784 .007784 .007784	1NHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .024850 .02584 .024501 .02584 .024301 .027000 .027679 .028973 • 9
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 105.0 107.0 108.0 109.0 110.0 111.0 111.0 111.0 114.0 114.0 115.0 BLOCKING	OUTER .001999 .025-4 .003217 .004021 .004971 .006082 .007566 .008835 .010498 .012563 .01454 .014717 .019210 .021913 .024823 .027954 PROBABIL 1	.000494 .000734 .000734 .000734 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .001155 .001154 .001238 .001277 .001315 TIES FOR C	1NHER(35) .004431 .004431 .004679 .005108 .005572 .005805 .006438 .006269 .006498 .006724 .006926 .007164 .007577 .007584 .007784 .007784	1NHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .024850 .025584 .024501 .025584 .024301 .027000 .027679 .028337 .028973
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 105.0 105.0 107.0 108.0 109.0 110.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 111.0 110.0 105	OUTER . 001999 . 0254 . 003217 . 004021 . 004021 . 004082 . 007566 . 008835 . 010498 . 012563 . 01454 . 014517 . 019210 . 021913 . 024823 . 027954 PROBAB(L1) OUTER	.000696 .000756 .000776 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .00115 .001155 .001154 .001228 .001277 .001315 .001258 .001277 .001315	1 NHER (15) .004431 .004431 .004679 .005108 .005372 .005805 .006038 .006498 .006498 .006498 .006498 .006498 .006498 .006498 .006498 .007164 .007164 .007164 .007164 .007584 .00788 .00784 .00	<ul> <li>INHER(42)</li> <li>017927</li> <li>01893</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024850</li> <li>024501</li> <li>02584</li> <li>024501</li> <li>027000</li> <li>027679</li> <li>028337</li> <li>028973</li> </ul>
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105.0 104.0 105	OUTER . 001999 . 0254 . 003217 . 004021 . 004021 . 004082 . 007566 . 008835 . 010498 . 012563 . 01454 . 01454 . 014517 . 019210 . 021913 . 024823 . 027954 PRO8A8[L1 OUTER 1	.000696 .000756 .000776 .000817 .000859 .000902 .000944 .000987 .001030 .001072 .001155 .001154 .001258 .001277 .001315 TIES FOR C	1 NHER ( 15 ) .004431 .004675 .005108 .005108 .005572 .005805 .006038 .006269 .006498 .006498 .006498 .006724 .007377 .007584 .007584 .007584 .00784 .125 A	1NHER(42) .017927 .01893 .019465 .020243 .021801 .022575 .023344 .024103 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .024501 .028973 .028973
LOAD 100.0 101.0 102.0 104.0 105.0 111.0 112.0 113.0 114.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 115.0 110.0 115.0 110.0 115.0 110.0 115.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 100	OUTER .001999 .025-4 .003217 .004021 .004021 .004021 .004021 .004021 .004021 .004021 .004021 .004021 .004021 .01454 .01454 .01454 .01454 .024823 .027954 PROBABLL1 OUTER 1 .001989	1x94ER (28) .000696 .000736 .000776 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .001156 .001156 .001228 .001277 .001315 TIES FOR C NNER (28) .000065	1 Nove R ( 15 ) . 004 4 31 . 004 4 53 . 004 8 75 . 005 108 . 005 572 . 005 8 05 . 006 038 . 006 2 6 9 . 006 7 2 6 . 007 164 . 007 177 . 007 5 8 4 . 007 7 8 4 . 007 7 8 4 . 125 A . 125 A	INHER(42) .017927 .018+93 .019465 .020243 .021801 .022575 .023344 .024103 .024850 .02747 .028873 .028873 .028873 .028874 .02874 .02874 .02874 .028744 .028744 .028744 .0287
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 100	OUTER . 001999 . 02544 . 003217 . 004021 . 004021 . 004021 . 004021 . 004021 . 004021 . 004021 . 004021 . 004021 . 01454 . 01454 . 01454 . 01454 . 021913 . 024823 . 027954 PROBABIL 1 OUTER 1 . 001989 . 002544	1x94ER (28) .000494 .000736 .000776 .000817 .000859 .000902 .0009×4 .000987 .001030 .001072 .001156 .001156 .001154 .001277 .001315 TTES FOR C NNER (28) .000045 .000045	1 NovER (15) .004431 .004635 .004679 .005108 .005572 .005805 .006038 .006269 .006269 .007584 .007584 .007584 .007784 .007784 .125 A .125 A	<ul> <li>INHER(42)</li> <li>017927</li> <li>018+93</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024850</li> <li>024850</li> <li>024301</li> <li>027679</li> <li>028337</li> <li>028973</li> <li>9</li> <li>INMER(42)</li> <li>003647</li> <li>003648</li> </ul>
LOAD 100.0 101.0 102.0 104.0 105.0 110.0 111.0 111.0 115.0 116.0 115.0 116.0 115.0 116.0 117.0 115.0 116.0 117.0 116.0 117.0 100.0 101.0 100.0 101.0 102.0	OUTER . 001999 . 02544 . 003217 . 004021 . 004971 . 004082 . 007566 . 008835 . 01498 . 01498 . 01498 . 01498 . 01498 . 01498 . 01498 . 01498 . 021913 . 024823 . 027934 PROBABIL1 OUTER . 001989 . 002544 . 003217	.000494 .000736 .000736 .000736 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .00115 .00115 .00115 .001238 .001277 .001315 TIES FOR C .001315	1 Nove R ( 15 ) .004 431 .004 63 .004 87 .005108 .005108 .00522 .005805 .00638 .006269 .006498 .007164 .007377 .007584 .007784 .007784 .125 A .24-ER ( 35 ) .000620 .000659 .000698	<pre>INHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .024850 .02584 .024850 .02584 .024850 .02584 .024973 .028973 .028973 .028973 .028973 .03847 .003648 .00-052</pre>
LOAD 100.0 101.0 102.0 104.0 105.0 112.0 112.0 113.0 114.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 114.0 115.0 110.0 110.0 112.0 111.0 112.0 111.0 112.0 113.0 111.0 112.0 111.0 112.0 113.0 111.0 112.0 114.0 115.0 114.0 105.0 100.0 10.	OUTER . 001999 . 02544 . 003217 . 004021 . 004971 . 00682 . 007566 . 008835 . 010498 . 012565 . 01454 . 01454 . 014517 . 019210 . 021913 . 027934 PROBABIL 1 OUTER . 001989 . 002544 . 003217 . 004021	1x0+ER(28) .000494 .000754 .000754 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .001155 .001154 .001218 .001277 .001315 TIES FOR C MNER(28) .000045 .000045 .000045	1 Nove R ( 15 ) .004 431 .004 63 .004 87 .005108 .005108 .005108 .00522 .005805 .00638 .006269 .006498 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .00784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .007784 .000420 .000427 .000459 .000458 .00045	<pre>INHER(42) .017927 .018+93 .019465 .020243 .021022 .021801 .022575 .023344 .024103 .024850 .025584 .024850 .025584 .024850 .027679 .028973 .028973 .028973 .028973 .028973 .028973 .003647 .003848 .004052 .004260</pre>
LOAD 100.0 101.0 102.0 104.0 105.0 100	OUTER . 001999 . 025-4 . 003217 . 004021 . 004971 . 00682 . 007566 . 008835 . 010498 . 012563 . 01454 . 014717 . 014514 . 014717 . 0121913 . 024823 . 027954 PROBABIL1 OUTER . 001989 . 002544 . 003217 . 004021 . 004971	.000494 .000754 .000754 .000754 .000776 .000859 .000902 .000944 .000987 .001050 .001072 .001155 .001155 .001278 .001277 .001315 TIES FOR C NNER(28) .000045 .000045 .000045 .000045 .000045	1 Nove R (15) .004431 .004635 .004675 .005108 .005108 .005357 .005805 .00638 .006249 .006498 .007164 .007164 .007784 .007784 .007784 .007784 .007784 .00786 .000420 .000620 .000659 .000698 .000780	<ul> <li>INHER(42)</li> <li>017927</li> <li>018+93</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024850</li> <li>025584</li> <li>024301</li> <li>027000</li> <li>027679</li> <li>028973</li> <li>9</li> <li>1×MER(42)</li> <li>003647</li> <li>003648</li> <li>00~052</li> <li>004260</li> <li>004471</li> </ul>
LOAD 100.0 101.0 102.0 104.0 105.0 100	OUTER . 001999 . 025-4 . 003217 . 004021 . 004971 . 00682 . 007566 . 008835 . 010498 . 012563 . 01454 . 014717 . 019210 . 021913 . 024823 . 027954 PROBABIL1 OUTER . 001989 . 002544 . 003217 . 004021 . 004971	1x0+ER(28) .000494 .000754 .000754 .000817 .000859 .000902 .00094 .000987 .001030 .001072 .001155 .001154 .001278 .001218 .001277 .001315 .001315 .001315 .00135 .00045 .000045 .000045 .000045 .000045	1 NHER (15) .004431 .004431 .004679 .005108 .005572 .005805 .006498 .006269 .007784 .000820	<ul> <li>INHER(42)</li> <li>017927</li> <li>018+93</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024850</li> <li>025584</li> <li>024301</li> <li>024850</li> <li>025584</li> <li>02400</li> <li>027679</li> <li>028337</li> <li>028973</li> <li>9</li> </ul>
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 110.0 112.0 114.0 114.0 115.0 LOAD 100.0 101.0 102.0 103.0 104.0 105.0	OUTER . 001999 . 0254 . 003217 . 004021 . 004021 . 004021 . 004082 . 007566 . 008835 . 010498 . 012563 . 01454 . 01454 . 01454 . 012513 . 024823 . 027954 PROBAB[L1 OUTER 1 . 001989 . 002544 . 002544 . 002544 . 002544 . 004971 . 004021 . 002544 . 00	1×3×4 ER (28) .000756 .000756 .000776 .000817 .000857 .000902 .000944 .000987 .001030 .001072 .001156 .001154 .001258 .001277 .001315 TIES FOR C N×E9 (28) .000045 .000045 .000074 .000078 .000088 .000088	1 NovER (15) .004431 .004635 .004679 .005108 .005572 .005805 .006038 .006269 .006498 .006498 .006498 .007377 .007584 .007377 .007584 .007377 .007584 .00784 .00784 .00785 .000620 .000620 .000698 .00068 .00	<ul> <li>INHER(42)</li> <li>017927</li> <li>01893</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024501</li> <li>025584</li> <li>024501</li> <li>027000</li> <li>027679</li> <li>028337</li> <li>028973</li> </ul>
LOAD 100.0 101.0 102.0 103.0 104.0 105.0 105.0 105.0 107.0 109.0 109.0 110.0 111.0 112.0 114.0 115.0 BLOCKING LOAD 100.0 101.0 102.0 103.0 104.0 105.0	OUTER . 001999 . 0254 . 003217 . 004021 . 004021 . 004021 . 004082 . 007566 . 008835 . 010498 . 012563 . 01454 . 01454 . 01454 . 012513 . 024823 . 027954 PROBAB[L1 OUTER 1 . 001989 . 002544 . 002544 . 002544 . 002544 . 004971 . 004021 . 002544 . 00	1×3×4 ER (28) .000756 .000756 .000776 .000817 .000857 .000902 .000944 .000987 .001030 .001072 .001156 .001154 .001258 .001277 .001315 TIES FOR C N×E9 (28) .000045 .000045 .000074 .000078 .000088 .000088	1 Nov ER (15) .004431 .004431 .004679 .005108 .005372 .005805 .006038 .006498 .006498 .00739 .000620 .000698 .000621 .000864	<ul> <li>INHER(42)</li> <li>017927</li> <li>018+93</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024850</li> <li>025584</li> <li>024301</li> <li>024850</li> <li>025584</li> <li>02400</li> <li>027679</li> <li>028337</li> <li>028973</li> <li>9</li> </ul>
LOAD 100.0 101.0 102.0 104.0 105.0 104.0 105.0 105.0 107.0 107.0 107.0 107.0 112.0 111.0 112.0 111.0 112.0 114.0 115.0 114.0 115.0 105.0 100.0 101.0 102.0 100.0 102.0 103.0 104.0 105	OUTER . 001999 . 0254 . 003217 . 004021 . 004021 . 004021 . 004082 . 007566 . 008835 . 010498 . 012563 . 01454 . 01454 . 01454 . 012513 . 024823 . 027954 PROBAB[L1 OUTER 1 . 001989 . 002544 . 002544 . 002544 . 002544 . 004971 . 004021 . 002544 . 00	.000494 .000754 .000754 .000817 .000859 .000902 .000944 .000987 .001030 .001072 .001155 .001154 .001258 .001277 .001315 .001258 .001277 .001315 .001258 .001277 .001315 .00045 .000045 .000045 .000045 .000074 .000078 .000088 .000088	1 Nov ER (15) .004431 .004679 .005108 .005572 .005805 .006038 .006269 .006498 .006498 .006498 .006724 .007577 .007584 .007584 .007584 .007584 .007584 .00786 .000659 .000659 .000659 .000698 .000739 .000821 .00086	<ul> <li>INHER(42)</li> <li>017927</li> <li>01893</li> <li>019465</li> <li>020243</li> <li>021022</li> <li>021801</li> <li>022575</li> <li>023344</li> <li>024103</li> <li>024501</li> <li>025584</li> <li>024501</li> <li>027000</li> <li>027679</li> <li>028337</li> <li>028973</li> </ul>

BLOCKING	PROBABIL	ITIES	FOR C	•	125	•	•	13	
									•
LOAD	OUTER	INNER	28.)	1000	ER ( 35 )		1н	NER (42)	

115.0 .027934 .000000 .000001 .000017

100.0	.001989	.000000	.000000	.000001
101.0	.002544	.0000000	. 0 0 0 0 0 0	.000001
102.0	.003217	. 000000	.000000	.00001
105.0	.004021	.000010	000000	100000.
104.0	.004971	. 000000	.000000	.000001
105.0	.00.092	. 000000	.0.0000	.000001
106.0	.007366	.000000	.000600	.000001
107.0	.008815	.000000	.000000	.000001
103.0	.0104*8	0000000	000000	.000001
109.0	.012363	.000000	. 330000	.000001
110.0	.0134	.000500	.000000	.000001
111.0	.016717	.000000	.000000	.000001
112.0	.019210	.000000	.000000	.000001
113.0	.021913	.000000	000000	. 000001
114.0	. 024823	.000000	.000000	.000001
115.0	.027954	. 000000	. 000000	.000001

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BLOCKING PROBABILITIES FOR C + 150 A + 8

OUTER	INNER(28)	INPIER(35)	INHER(42)
. 003152	.002545	.013575	.045304
.003844	.002+47	.014038	.046555
	. 003152	.003152 .002545	.003152 .002545 .013575

127.0	.004649	.002750	.014501	.047798	
128.0	.005574	.002854	.014964	. 04 9032	
129.0	.00+630	. 202957	. 315425	.050252	
150.0	.007823	.005061	.015882	.051457	
131.0	.009162	.001164	.01+335	.052642	
152.0	.010551	.001266	.01+782	.053805	
133.0	.012295	.003367	.017222	.05-944	
134.0	.014097	.003466	.017654	.050056	
125.0	.016059	.0035+4	.018077	.057138	

.....

BLOCKING PROBABILITIES FOR C + 150 A + 9

LOAD	OUTER	INNER (28)	1H4ER(35)	1NNER (42)	
125.0	.003152	. 000312	. 002537	.012372	-
126.0	.003844	.000327	.002646	.012829	
127.0	.004649	.000342	.002757	.013287	
128.0	.005574	.000358	.00286B	.013745	
129.0	.006630	.000374	.002980	.014203	
110.0	.007823	.000389	.00:092	.014657	
131.0	.009162	.000435	.003204	.015109	
132.0	.010+51	.000421	.003315	.015555	
133.0	.012295	.000437	.003425	.015994	
134.0	.014397	.000452	.033533	.016426	
135.0	.016059	.000468	.003640	.016850	

BLOCK 1NG	PROBABIL	ITIES FOR	C = 150 A	• 10
LOAD	OUTER	1NNER (28.)	INNER(35)	INNER (42)
125.0	.003152	.000029	.000357	.002541
126.0	.003844	.000031	.000376	.002658
127.0	.004649	.0000:2	.000395	.002776
128.0	.005574	.000034	.000414	.002896
129.0	.006630	.000036	.000433	.003016
130.0	.007823	.000038	.000452	. 0 3 3 1 3 7
151.0	.009162	. 00039	.000472	.003257
132.0	.010651	.000041	.000492	.003377
133.0	.012295	. 000043	.000511	.003496

134.0	.014097	.000045	.000530	.003614
135.0	.016059	.000047	.000550	.003730
		LITIES FOR		A + 11
LOAD		1HHER (28)		
125.0	.003152			
126.0	.003844		.000042	
127.0	.005574	.000002	.000044 .000046	
129.0	.006630			
150.0	.007823			
131.0	.009162	. 000003	.000054	. 200540
132.0	.010+51	.000003	. 0 0 0 0 5 7	.0005+4
133 0	.012295	.000003	. 00005 9	.000587
134.0	.014097		.000002	.000611
135.0	.016059	.000004	.000064	.000634
		ITIES FOR		
LOAG		INNER (29)		
	.003152			.000051
126.0	.003844	.000300	.000004	.000054
127.0	.604649			.000057
128.0	.005574	.000000	.000004	.0000+1
129.0	.006630	.000000	.000004	.000064
130.0	.007823	.000000	.000005	.000367
131.0	.009162	.000000	.000005	.000071
132.0	.010651	.000000	.000005	.000074
133.0	.012295	.060600	.000005	.000078
134.0	.014097	.000000	.000006	.000082
		.000000	.000006	.000085
		TIES FOR C		
DAD				INNER (42)
135.0	.003607		.003995	.018114
	.005179	.000546 .000569	.004145 .004297	.018 e
	.006135	.000592	.004449	.019840
	. 00 72 1 3	.000615	.004602	.020410
	.008420	.000638	.004754	.020975
141.0	.009762	.000661	.004905	.021532
142.0	.011243	.000684	.005054	.022082
143.0	.012866	.000707	.005202	.022622
	.014634	.000729	.005347	.023152
145.0	.016547	.000752	.005490	. 023673
LOCKING P		TIES FOR C		• 10
		HER (28)		INNER (42)
			.000621	.004123
			.003649	.004289
	005179		.000678	.004-56
			.000707	.004524
	007213		.000736	.004792
140.0 .	008420	.000068	.000766	.004959
141.0 .	009762	.000071	.000795	.005126
142.0 .	011243	.000073	.000824	.005291
			.000853	.005455
				.005616
45.0 .	014547	.000082	.000910	.005774

			C + 160 A	+ 11
LOAD	OUTER	1NNER(28)	[H44ER(35)	
135.0	.003607			.000723
136.0	.004340	. 000005	. 000079	.000758
157 0	.005179	.000005	.000085	. 0 0 0 7 9 5
158.0	.006135	.000005	.000087	.300829
159 0	.007215	. 000005	.000091	. 000865
150 0	.008420	-000008	.000096	. 600901
141.0	.009762	.000000	.030100	. 000957
142 0	011245	. 000006	.000104	.000974
141.0	0128++	00000.	.000108	.001009
144.3	014634	. 000007	000115	.0010-5
145.0	.01+547	.000007	. 000117	.001080
BLOCK ING	PROBABIL	ITES FOR	C + 1+0 A	• 12
LCAD		1 NOVER (28)	1NNER (35)	1NNER (42)
115 0	. 003+07	.000000	. 000007	. 000100
130.0	.004340			.000106
137.0	.005179	. 600000		.000112
158.0	.00+135			.000117
139.0	.007213	. 000000		.000125
1-0.0	.008420			.000129
141.0	.009762	.000000	.000010	.000135
1-2.0	.011243			.000141
143.0	.012866	. 300000	. 000011	.000147
144.0	.014634			. 000155
145.0	.01+547	.000000	.000012	.000159
143.0				
			C = 160 A	
LOAD		INNER (28)	1NNER(35)	[NNER (42)
	.003607	. 000000		.000011
134.0	.004340	.000000		.000012
	.005179	.000000		. 000013
118.0	.006135	.000000	.000001	.000013
	.007213	.000000		.000014
140.0	.008420	.000000	.000001	.000015
	.009762	.000000	. 000001	.000016
142.0	.011243	. 000000	.000001	.000017
	.012866	.000000		. 000017
144.0	.014+54	.000000		.000018
145.0	.016547	.000000		.000019

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