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SPLA

CONTROL NUMBER: **SHR 00248**

SHARE PROGRAM LIBRARY AGENCY

Triangle Universities Computation Center

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This form should be completed and submitted with the program package to the SHARE Program Library Agency at the address shown above. Standards and instructions for submitting programs are in the SHARE Reference Manual, Section 6.

(1) Program Number (to be filled by SPLA) **3700-24.2.001**

(2) Title of Program **CAPMAN**

(3) System Type(s) (Machine) **IBM MVS**

(4) Search Key(s) **capacity planning model MVS**

(5) Programming Systems/Languages **PL/1 (optimizing) ; assembler**

(6) Primary Subject Code **24-2**

(7) Minimum System Requirements **runs on MVS systems**

(8) New (N) or Revision (R) (if revision, show prior Program Number in Item 1) **N**

(9) Date of Submittal **January 28, 1981**

(10) Documentation (number of original pages submitted) **80 (machine readable)**

(11) Author's Name and Address **LOREN GORDON**

**CONFÉDÉRATION DES CAISSES PAULAIRES ET
D'ÉCONOMIE DESJARDINS DU QUÉBEC**

**BASILARTE 2
1, COMPLEXE DESJARDINS**

(12) Direct Technical Inquiries to Name & Address
(if different than Author)

**CP 7, SUCURSALE DESJARDINS
MONTREAL PQ CANADA
H5B 1B2**

(13) Submitter's Installation Membership Code **same CQC**

(14) Abstract (should contain sufficient information for a reader to determine the value of the program). Listed on the reverse side of this form are subjects which may serve as a guide for a descriptive abstract.

DISCLAIMER

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Subject Guide:

- Purpose
- Programming Language used
- Version and modification level or release number
- Field of application
- Type of routine (main program, subroutine, etc.)
- Specific description of machine requirements

CAPMAN is a model of MVS ^{useful} ~~useful~~ for capacity planning and performance analysis. It consists of a set of programs written in PL/I (optimizing) and assembler. An SMF reducer and histogram facility is provided for workload trend studies. There is also an automatic reconfiguration facility that eliminates tedious "by-hand" parameter calculations. An automatic "spill" to a BDAM file occurs if the matrices grow too large for the ~~the~~ storage provided so that large configurations can be modeled in storage-constrained environments. The algorithm used ~~is based on the~~ is based on the multiple class queueing network central server model with multiple priorities simulated by an iterative "shadow CPU" technique.

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(Please attach additional pages if necessary) Total pages attached

An "Acknowledgement of Assistance" statement must be attached to this Submittal Form.

Permission to Publish

"I hereby give the SHARE Program Library Agency permission to reprint, reproduce, and distribute this program"

(15) Signature of Submitter and Date John Lydon 6 28 januar, 1981

(15) Signature of Installation Addressee Gene Deslaur 1981 02 10

TAPE KEY - CAPMAN

This volume contains 1 file and two file marks arranged as follows:

- File 1

A pds in the form of IEBUPDTE SYSIN input. The 80-byte card images are blocked at 60 per block. The cards have no sequence numbers because some members must not be sequenced numbered. The PDS contains:

- program source
 - sample JCL
 - test data
- T/M
 - T/M

The following JCL can be used to read the tape:

```
//UPDTE      EXEC PGM=IEBUPDTE,PARM=NEW,COND=(0,NE)
//SYSPRINT  DD  SYSOUT=A
//SYSIN     DD  DSN=N,UNIT=T,LABEL=(1,NL),VOL=SER=mintap,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=4800,),DISP=OLD
//SYSUT2    DD  DSN=AM00300.SHARE,UNIT=PUBLIC,
//          SPACE=(CYL,(10,5,30)),DISP=(,CATLG),
//          DCB=(BUFNO=1,RECFM=FB,LRECL=80,BLKSIZE=4800)
```