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NOTES AND COMMENTS

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6600 USERS

The central processor rate for the CDC 6600 will be changed as of May 1, 1968. The new rate of \$17.00 per minute will be reflected in your May statements. The peripheral processor rate of \$1.25 per minute will remain unchanged.

SCOPE 3.1 OPERATING SYSTEM

The SCOPE 3.1 operating system is now in use daily on a part-time basis. This use is necessary for two reasons: 1) it enables the Computer Center users to convert jobs to the 3.1 system, and 2) it allows the UCC staff to evaluate system performance more thoroughly.

SCOPE 3.1 includes the capability for

- 1) COBOL
- 2) SORT/MERGE 2.0 (including Random I/O)
- 3) SIMSCRIPT (a useful version)
- 4) SNOBOL
- 5) FORTRAN EXTENDED (an extremely efficient object code)
- 6) Improved long tape record I/O (read and write)
- 7) Random files for allocatable devices
- 8) Improved handling for remote stations
- 9) Improved Dayfile procedure
- 10) Improved capability for handling accounting information

Detailed information concerning features of SCOPE 3.1 not available in SCOPE 2.0, as well as the differences between the 2.0 and 3.1 operating systems will be published as soon as all the information is compiled. Most users, though, will probably need only consider the following few items.

- 1) For the SCOPE 3.1 operating system, COMPASS is the assembly language and ASCENT is no longer used. This applies to persons using assembly language only. Programs involving Fortran only are treated as in SCOPE 2.0.
- 2) The job card has a new format as described below:

JOBNAM, Tdddd, CMdddddd. dddddddd (TT)

where

- JOBNAM - Job name (1-7 characters)
- Tdddd - Up to 5 octal digits designating maximum allocatable time. This should be as close to the required time for the job as can be determined.
- CMdddddd - That portion of the central memory required by the job (up to 6 digits). When the remote station is running the maximum allowed is 147000. At other times the maximum is 154000.
- ddddddd - The users assigned 8 digit account number. This entry must directly follow the period.
- (TT) - Enclosed within parentheses, this is the number of tape drives requested by control cards.

- 3) The REQUEST card format for tape assignments is modified. The format for SCOPE 3.1 is now:

REQUEST TAPE ZZ, dt, X. SNYYY, TNAME

where

- ZZ - The logical number of the tape being requested.
- dt - LO, HI, HY corresponding to recording densities of 200, 556, and 800 bpi.
- X - This essentially tells the system whether or not the tape is to be (or is) a STANDARD 3.1 tape. If the tape was written by SCOPE 2.0 or is to be written by SCOPE 3.1 and read under SCOPE 2.0, this X should be present.
- SNYYY - YYY represents the tape storage number in the UCC tape library.
- TNAME - The tape name as written on the visual label of the tape.

4) In addition to the subroutine library the following software packages are available on SCOPE 3.1:

- 1) UMST 500, 510, 520, 531, 550, 560, 570,
590, 600, 610, 620, 660, 670 and 680
- 2) ALGOL
- 3) Fortran 2.3 and COMPASS
- 4) SORT/MERGE
- 5) BASIC
- 6) SIMSCRIPT
- 7) SNOBOL
- 8) KWIC

Very shortly, COBOL and FERT/TIME will be available, and FORTRAN EXTENDED should be available by August, 1968.

Any problems encountered in the use of the SCOPE 3.1 software should be reported to a Computer Center consultant so that the system performance can be properly evaluated and errors corrected.

6600 USERS

The University Computer Center has available a listing of 6600 library systems, Fortran library subroutines and functions available on the SCOPE 3.1 system. See Amy Koepke in Room 227 Experimental Engineering or the UCC consultant in Room 220 Experimental Engineering.

CDC MANUALS

The following reference manuals for the CDC 6600 are now available at the Engineering Bookstore in Main Engineering.

<u>Manual</u>	<u>Cost</u>
COMPASS	\$1.25
SCOPE 3.1	2.65
FORTTRAN 2.3	2.45
SIMSCRIPT	2.30
COMPUTER SYSTEMS	2.85
COBOL	3.40
ALGOL	1.30