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6600 NEWS

New Feature

The Scope 2.0 Operating System will now accept COS 1.1 jobs. With this change, four compilers are available to the 6600 user:

- 1) Fortran 2.0 - This compiler is the standard for Scope 2.0 and requires standard control cards.
- 2) RUN - This is the Fortran 1.1 standard release for the Chippewa Operating System (COS 1.1).
- 3) RUNAUG -
- 4) RUNNOV -

The last two compilers are not standard compilers for COS 1.1. In many instances, they may produce more efficient code than RUN(COS 1.1). RUN, RUNAUG, and RUNNOV require special control cards. These Chippewa routines are accessed by using the special routine QXX. This routine changes the COS 1.1 references to a proper format for use under the Scope 2.0 Operating System. To use COS 1.1 routines the name of the routine as well as its arguments become arguments to the routine QXX. For example, under the Scope 2.0 system, the COS 1.1 version of the RUN compiler would be
QXX(RUN,S)

The control card for execution of the COS 1.1 program would then be
QXX(Program Name)

Utility routines are accessed in the same manner using QXX.

UMSTAT

Umstat66 is undergoing major revision during its conversion to a 6600 version. Any user who has suggestions for additions or modifications to this program should contact Jim Mundstock, 212 Exp. Eng., ext. 4548.

New Manuals

The Numerical Analysis Center has negotiated a reduction in the price of manuals. It will again be feasible to offer them for sale in the Main Engineering Bookstore. The price of the FORTRAN manual will now be \$2.75. The following manuals are on order and will soon be available:

<u>Manual</u>	<u>Publication date</u>
6400/6500/6600 Computer System Reference Manual	February, 1967
6400/6600 FORTRAN Reference Manual (current Scope 2.0)	October, 1966
6400/6500/6600 SCOPE Reference Manual (operating system)	April, 1967
6400/6500/6600 COMPASS Reference Manual (assembler)	April, 1967

Input-output

The telephone number of the 6600 input-output room (130 Exp. Eng.) is 4596. Users may call either 4596 or 4921 for information on job status.

Magnetic tapes

All tapes intended for the user library must be checked in with the NAC staff either at the NSP site or in the 6600 input-output room. Tapes must not be removed without staff knowledge. Contact Barbara Shattuck at 4921 for tape library information.

6600 Library

The following named subroutines are now available on the 6600 library:

AMEAN	JACOBIN	ROM2F
AITKENF	JSHFT	ROOT1
BESJ	LINEINT	RVAL
BETAI	LINT	SORT1
BUFF	MEANVAR	SORT2
CBIN	MERGE2	SYMPACK
CDFNI	MERGE4	SYMUPK
CELIPFE	MXCMBN	SYMINV
CHEBY	MXEXTRM	TINV
CHSQ	MXLNEQ	TTEST
CHSQI	MXMOV	UMST500
CMXLNEQ	MXMPLY	UMST510
CONVERT	MXMPLY1	UMST520
CVAL	MXTRID	UMST530
DDFN	MXTRIDI	UMST560
DVAL	MXTRP	UMST570
EI	NRAN	UMST600
ERFN	ORTHON	UMST610
ERROR	PLOT	UMST620
FREQDSN	PLROOT1	XINT
FVR	PLROOT2	
GAMMAF	PLROOT3	
GENREAD	QR	
IBIN	RANDEV	
IELIPFE	RAN1F	
IRAN	RAN2F	
ISHFT	RK	
ISHIFT	RK1ST	
ISSU	RKGHN	
IVLFREQ	ROM1F	

NOTE: Users should discard all old decks and use the library for all subroutines listed above. For any routine not listed here, please check decks with a consultant for possible errors. Regretfully, a few erroneous decks were given out.