NOTICE OF CHANGES TO THE OPERATING SYSTEM

Bill Elliott installed a hexadecimal dump option on TDUMP, invoked using the H
parameter. Additionally, Bill installed his proposed Account file tape messages.

Tom Lanzatella changed the Account file message prefix characters issued by 1AJ
and LDR to ZLSY from LOSY. These messages are used to gather statistics on system
file program loads.

N. L. Reddy modified program OUT so that only jobs of system origin may use the
utility. This change was necessary in order to prevent confusion to operations
staff after the new banner page is installed. The low usage of the OUT control
card does not justify the major effort required to make the program produce
dayfiles and banner page data. In any case, OUT was rendered obsolete by local
features in DISPOSE.

Reddy also supplied new local versions of the CDC programs COMSJIO, COMPUSS and
1BA. In all cases, the substantial number of local modifications prohibited easy
maintenance in the OPL/JPL/WPL scheme. The source for these programs now resides
in MPL.

Kevin Matthews installed the following changes to the Kronos Control Language
(see DSN 2,3 p2):

1. The DW variable, taking on values 0, 1, etc. corresponding to day of
    week, starting on Monday.

2. The GOFO statement, causing control transfer in a forward direction
    on the control statement file.

3. The logical function ID (name 1, name 2), which returns a true value
    if name 1 is the same as name 2.

In converting CPM from level 9 to level 11, Bob Zalusky changed the organization
of the CPM function table. For mod scheme simplicity, new CPM functions should
be inserted before function 77B if PP resident and before function 72B if CPUMTR
resident. In the light of this organization:

1. CPM function 67B (CLEAREW) has been changed to 71B.

2. CPM function 71B (write BIN word) has been changed to 76B.

3. CPM function 70B (read Control Point word) has been changed to 75B.

Don Hamnes finished converting his DISPOSE modifications and has furnished the
following description of the changes to the DISPOSE mod:

In addition to the introduction by CDC of allowing the disposing/releasing of files to be punched in 029 mode (via the P9 and PUNCH9 mneumonics respectively), a few changes resulted to the following sections of code in converting the DISPOSE mod to level 11:

1. LFM:

   a. There are 2 new LFM functions for releasing files to queues:

      LFM function 51 = release to batcher queue.
      LFM function 52 = release to binary queue.

      In addition the more general release function, LFM function 16, now also allows releasing files to the batcher and binary queues.

   b. The valid destination sites are all sites in the range [BLOT,DHOT) (see SYSTEXT).

   c. The type of file which can be processed by the LFM release functions was expanded to allow all file types in the range [OLFT,OHFT) (see SYSTEXT) in addition to LOFT; this effectively added binary and batcher type files.

2. FILES:

   a. It is now possible to DISPOSE a file to the binary queue; the mneumonic is BI.

   b. The valid destination sites allowed by DISPOSE are all sites in the range [BLOT,DHOT).

   Thus, the following can work now:

      DISPOSE(LFN=BI/S=88).

3. CPCOM:

   a. The mneumonics for the binary and batcher queues are BINARY and BATCH respectively.

   b. It is possible in the release macro to specify 8_ as a site destination.

PROPOSED CHANGES TO THE OPERATING SYSTEM

Kevin Matthews suggests the following changes to the KRONOS Control Language:

The following mod is proposed for CONTROL, the deck which processes the CALL statement. I propose to add an entry point called Z which acts like a CALL, but the procedure file comes from the Z control card instead of from a file. This new entry point is called Z since it acts like the Z option on MODIFY, DUMPPF, and LIBEDIT. Z will be mainly useful for TELEX users. In batch mode, one can enter a statement like:

   Z./R,TAPE1./CBR,TAPE1,X,3./COPY,TAPE1,OUTPUT.

instead of three separate control cards

```
R,TAPE1.
CBR,TAPE1,X,3.
COPY,TAPE1,OUTPUT.
```

Although Z is primarily useful for TELEX users, it can also be used in a batch deck. Since it acts like a CALL, the control cards will be placed in the control card stream as in a call.

SYSTEM MAINTENANCE: PEOPLE AND PROCEDURES

NEW VERSION OF SYSLIB - by M. Riviere

The proposed new version of SYSLIB containing the relocatable versions of the KRONOS common decks is now available as FUTURE(SYSLIB). In order to assemble the common decks as relocatable programs, a systems text composed of COMCMAC, COMCMTM and COMSPFM was used. This text is named RELTEXT and is available as a FETCH type file. A description of this version of SYSLIB will soon be available on WRITEUP.

PERMANENT FILE INFORMATION - by K. C. Matthews

A. New Pack PF01

Auxiliary pack PF01 is up and running well on an 844-41 drive. Initially, the level 11 dayfiles will go on this device. Otherwise, there should be no staff permanent files on PF01. It is intended for users only. Also, it should not be used during system time.

On the incremental dumps, pack PF01 is dumped last. Therefore, the order of incremental dumps on the incremental dump tapes is:

1. The Device Number Packs;
2. STF
3. SP
4. PF01.

STF and SP were kept near the front since they are the packs most likely to need reloading.

B. New Pack UCC

A double density pack named UCC is available for temporary permanent file use only. No files are ever dumped from this device. Also, this device will be initialized whenever needed during system time or otherwise. Pack UCC will probably go away forever when PF01 begins getting full.

C. Permanent File Folder

There is a folder of useful permanent file information by the current deadstart tape rack in the computer room. This folder contains three items which should be of interest to staff members.

1. Device Full Procedure

This one sheet tells what to do when a permanent file equipment becomes full (no tracks left).

2. Permanent File Dumping and Reloading Procedure

This writeup gives the permanent file dumping schedule. It also
tells what one must do to reload the secured permanent files in
case of a disk disaster.

3. Pack Serial Number List

This list shows which serial number pack is used for which equipment,
(e.g., 304029 is DN1011, the first pack of DN10). The serial number
is printed in big letters on the top side of each pack. For the 3M
single density packs, the UCC property number tag (red #) is printed
on top.

D. As we mentioned before, Dayfiles during normal operations will go to equipment
14, which is pack PF01. During system time, the dayfiles should go to equipment
0. If it is necessary to bring up the normal operating system during system
time, make sure to force the dayfiles to Equipment 0. Otherwise, the system
time dayfiles on Pack PF01 will cause problems with the accounting runs. The
dayfiles are forced to equipment 0 by entering:

        DAYFILE = 0,400.
        ACCOUNT = 0,400.
        ERRLOG = 0,100.

at deadstart time.

CALLPRG - by M. Riviere

Memo To: All UCC Staff

From: M. Riviere

Subject: CALLPRG

This memo describes the decisions discussed at the CALLPRG meeting that took place
on March 15, 1976. The attendees at the meeting were: R. Franta, M. Frisch,
R. Hotchkiss, T. Lanzatella, L. Liddiard, D. Lienke, S. Nachtsheim, A. Mickel, and
M. Riviere.

Any objection to these decisions should be brought to the next System meeting.
Once the new procedures are approved by the System group I will recompile the
information of my past CALLPRG memos, extend it wherever necessary, and modify
the procedures to adapt them to the decisions described here.

A. UCC AND PRIVATE USE OF CALLPRG INDEX.

The programs which are not provided for general use will not be removed
from the CALLPRG Index. However, they will be converted to Fetch type to
avoid the possible confusion caused by the existence of undocumented control
card callable programs. This setup will classify these programs so that UCC
is not committed to maintaining them once UCC staff considers that they are
no longer needed.

A flag will appear on the right side of the CALLPRG index card to show that
the program belongs to this category. Local UCC programs of limited use and
programs from outside UCC will be in this category.

B. CALLPRG REVIEW COMMITTEE AND CHANGE PROCEDURE.

A proposed CALLPRG committee to review future CALLPRG changes will not be formed. Future programs to be included in the index will have to be proposed at a System meeting and/or an issue of the Deadstart Systems Newsletter.

Once the proposal is accepted and the change is ready to be installed, an announcement will appear in the DSN prior to the installation. That announcement will be very brief and it will contain equivalent information to the one that now is placed on SYSMODS once a change takes place. The handling of managers' and directors' authorizations to request a change will be the internal concern of each group. When I receive a change request, I will assume that whoever is requesting it has the authorization to do so. Directors and managers can stop the change from taking place by contacting me before the installation takes place if they consider a change questionable. Anyone else that has objections about the future changes can bring them up for discussion at the System meeting which follows the publication.

C. CALLPRG ONE-TIME CLEAN UP.

A committee will be formed to review the current contents of the CALLPRG index. The committee members will be M. Frisch, A. Mickel, T. Lanzatella, R. Franta, and M. Riviere. This committee will decide:

1. Which programs are not of general use and therefore should be converted to Fetch type and what the requirements are (if any) for these types of programs.

2. Which of the control card callable, i.e., not fetch type, programs need to be reviewed to fill the requirements which will be imposed on new programs and request the needed modifications.

D. CALLPRG PROGRAM REQUIREMENTS.

The requirements for a CALLPRG program to be control card callable will be the following:

1. The program is needed for general use.
2. A person is in charge of the program.
3. The program and the documentation will be updated whenever needed.
4. It is properly named, documented, has a calling sequence, parameters, dayfile messages and purpose which satisfies UCC standards and compatibility requirements.

Some flexibility may be allowed depending on the nature of the program.

E. DISK VS. TAPE RESIDENCY.

No explicit decision was made about when a CALLPRG program should be moved from disk to tape. That decision will be individually handled by each group.

F. CHANGING CALLPRG FILES.

No decision was made about whether an active CALLPRG file should or should not be rewritten or replaced during production time. This decision is based on director-manager-programmer considerations.

G. DESCRIPTION OF USER'S USE OF CALLPRG.

Rich Franta will produce a short write-up for professors and instructors
explaining how to set up programs in CALLPRG. This write-up will state
that control callable programs are reserved UCC names and therefore any
program which does not belong to UCC should be Fetch type. This write-up
will also explain the pitfalls of using a program which resides on tape for
a class. Arrangements should be made in advance to have the program on disk
before it is used.

H. LIBRARIES ON CALLPRG.

The libraries will not be modified to reduce space. Old 3.0 products
libraries will remain as they are. Different levels of 4.0 compilers will
remain associated with their corresponding libraries.

Rich Franta will produce a write-up describing all the libraries which are
available at UCC. This write-up will include the libraries available on
CALLPRG.

CALLPRG INDEX CLEAN UP - by A. B. Mickel

The ad hoc Callprg Clean Up Committee met this week to make recommendations for
improving the current state of the Callprg Index. Our goal is to meet the
standards and procedures outlined by the recent Callprg Policy meeting described
in Marisa. Riviere's article above.

Several areas of improvement were to identify programs that:

1. Were used by staff only or by private users only and need to be moved to FETCH,
2. need documentation, or
3. need name change.

In category number 1:

MODIFY (future) should be deleted because the same version is now current under
the new operating system.

ANALYZE should be moved to FETCH.

OPLEDIT (future) should either be moved to FETCH or the J parameter added to
the current version on the system.

CHEAP31 (future) should be moved to FETCH; current version deleted.

CALLS, ROUTER and ARTHUR should all be moved to FETCH after first contacting
the private users and if inconvenient to them allow one more quarter before
changing to FETCH.

Under category 2:

LOADER - will be documented by Tom Lanzatella.

LPKODE, the new GPSS, and DARE will be documented by Dennis Lienke as
supervised by Mike Frisch.

BTCHMNF will not be documented as it should not, and so will be moved to FETCH.

KWIC, TRIAL, and FMS's documentation should be pointed to if it exists and if not, moved to FETCH after three months.

SAP - needs to have its documentation pointed to.

UMTIMER - needs to have its documentation restored.

Under Category 3:

UIJN has already been fixed (new name HASH).

POST, PRE, and PRO should perhaps be renamed QQPOST, QQPRE, and QQPRO if the impact on QWICK QWERY Users and documentation is not too severe.

PSTPRC will be renamed PLOT31 perhaps.

GETSAVE, PURGER, and CHANGER will be reprogrammed together with ABCLIST under a single new name and placed under FETCH as volunteered by John Larsen. In the meantime, they all go to FETCH.

In going through the Index it was discovered that two old Scope Indexed Sequential (SIS) utilities (ESTIMATE and SISTAT) have been moved to PAST because two Record Manager utilities have the same name. However, six other old but related SIS utilities perhaps also should be moved to PAST as well: BUFDEFN, CREATE, DUMPC, DUMPR, DUMPS, and RELOADER.

Finally, there has always been a need for a super CATLIST routine which has frills and options for alphabetizing, determining accesses of all semiprivate files, permanent file cost per unit time, etc. The last users' meeting emphasized this, and it was discovered that even some users have resorted to writing their own.

Therefore, Bob Zalusky who has written WHO and John Larsen who has written CATLSYS and ABCLIST will collaborate on ideas for a single enhanced CATLIST which is best renamed.

In the meantime, WHO goes to FETCH.