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NOTICE OF CHANGES TO THE SYSTEM

This week's system is a record of sorts. The only change of any
consequence in Paul Thompson's correction to DSP which ensures
that all jobs which enter the queue have a user index.

PROPOSED CHANGES TO THE SYSTEM

Uppers and Downers - by Rick C. Marcus

At the request of several UCC staff members, I propose to put up
the FULL-ASCII Pascal compiler as a FETCH product and call it PASCII.
We obtained this compiler from TEKTRONIX as a gift. PASCII is the
same as the current Pascal compiler with the addition of a FULL-ASCII
character set ability.

However, sets are still limited to 59 elements implying that set
of characters is still not implemented. There is no documentation
for PASCII other than the current Pascal documentation and our group
does not intend to support it.

An example of its USE:

    GET,PROG.
    FETCH,PASCII.
    PASCII,PROG/G+.

ANYCP - by Andrew Hastings

I would like to install a system modset from MECC entitled "ANYCP."
This modset allows a control point number to be specified when initiating
control card jobs from the console under DSD. The syntaxes are as
follows:

        n=name.
        n=name,field length.
        n=name(parameters)

These above DSD commands behave exactly the same as the corresponding
"X.name" commands with the exception of the control point assignment.

The main reason I would like to install this modset is the Cray
Station. Currently, the operators must initiate the Station with an
"X.CRSTAT." command. This provides no control over what control point
the Station runs at, and the Station may end up running at a control
point that is usually allocated to a subsystem such as IAF or MAGNET.
With this ANYCP modset installed, the operators may specify the control
point at which the Cray Station is to run.

Another usage of the ANYCP feature is in systems work when testing
or debugging code that is dependent on the control point number.
An example of this is BEB's HANGCP feature.

SYSTEM MAINTENANCE

Deadstart Dump Analysis - from 10/9 to 12/6 - by B. E. Blasing

Cyber 730-SN916

Thur., 10/20, 10:13   DD2016
A supposedly fixed disk drive was turned on and hung the system badly
enough to require a L3 deadstart.

Wed., 10/21, 08:00   No Dump
Many channels hung full or empty. The operators were unable to deadstart.
The CE's looked at the problem for a while until it went away on its own.

Wed., 10/21, 09:30   DD2017
Some PPU corrupted its PP resident, causing the next PPU to be loaded
there (CIO) to write itself all over central memory. It is unknown
who or why PP resident got corrupted. A LO deadstart was needed.

Wed., 11/4, 08:00   No Dump
The system would not deadstart. The CE's worked on the system until
12:30 when the problem was narrowed down to the upper bank of PPU's.
We ran the rest of the day with only 10 PPU's.

Wed., 11/11, 20:52   DD2021
A staff member fortunately found a bug in CTASK which allowed subsystem
priveleges; unfortunately he found it during production time. A L3
deadstart was needed to clear a hung 1RO from his job.

Sat., 11/14, 08:35   No Dump
An air-conditioning problem caused all machines to shut down.

Tue., 11/17, 17:37   DD2024
An 844 disk broke, and required a level-0 deadstart to configure a
different drive into the system.

Wed., 11/18, 23:00   No Dump
10 feet of snow (on some powerlines, not in the machine room) caused
a power fluctuation which broke an 885 disk drive and the ECS cooling
equipment. More power fluctuations interfered with the reloading of
that 885 onto a spare device. All three Cybers stayed down until
03:10.

Tue., 11/24, 10:37   DD2016
1MB was noticed to be logging SCR errors. For some reason the scopes
blanked when the P display was brought up. Valiant efforts to unblank
the scopes (the system was running) were ended when a power-flux delivered
the finishing touch.

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Cyber 172 MERITSS

Tue., 10/20, 21:14   DD1
The infamous mode 40 error exit after an exchange jump hit again.
The machine stayed broken for 10 minutes and then the problem disappeared.

Mon., 10/26, 09:50   DD2
A bad POT was passed from IAF to its output helper 1TO, who promptly
hung. DWM has fixed this.

Sat., 11/14, 08:35   No Dump
An air-conditioning problem caused all machines to shut down.

Wed., 11/18, 23:00   No Dump
Snow problem. See Cyber 730

Mon., 11/23, 15:32   DD7
Two words of unknown origin or destination took refuge in the track
reservation table of equipment 6. A level 0 deadstart booted them out.

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Cyber 74 - SN23

Wed., 11/4, 17:30   DD2021
BATCHIO hung with 1CD doing apparently nothing. A L3 deastart was
successful.

Fri., 11/13, 02:10   DD2023
An interlocking problem with our implementation of user ECS caused
a tape request (which rolls out user ECS) to hang up. Apparently this
bug has been in ever since we have been running multi-mainframe; and just
now decided to show up. This has been fixed.

Sat., 11/14, 08:35   No Dump
An air-conditioning problem caused all machines to shut down.

Wed., 11/18, 12:45   DD2001
An enterprising, tall systems programmer caused the time of day to be
zeroed out in low core. A timely deadstart restored it.

Wed., 11/18, 23:00   No Dump
Snow problem. See Cyber 730.

Sun., 12/06, 17:53   No Dump
The on-line diagnostics indicated a CPU failure. The population count
(CXi) instruction had broke. The machine was given to the CE's, who
fixed the problem.