

*✓ Corbett } FYI
Schmaler }
Still no mention of
P/I performance
problems?
MDS*

Honeywell

*Jerry Saltzer
For your info*

RECEIVED
MAY 10 1973
J. H. SALTZER

To: List of Attendees

Subject: FORUM Minutes for May 1, 1973

cc: MAY Vinograd

| | | | |
|------------|------------|------------|--------------|
| Attendees: | WJ Burner | RM Gross | RA Roach |
| | CT Clingen | RE Hoffman | LJ Ryan |
| | RC Daley | ED Kleinow | JR Steinberg |
| | JW Gintell | JR Ohlin | SH Webber |

H6180 Hardware Status

- of the four known processor bugs remaining, only one is deemed to be "critical".
- SCU-B/Store-B had a parity error, the first one in the past four weeks or so.
- we've been experiencing a considerable number of Bulk Store problems, but our understanding of the problems has improved substantially; we now suspect an internal cable connection as the major remaining source of trouble.
- tape drive #E is still not fixed, even though all the logic and the R/W head has been swapped-out; a replacement handler has been placed on-order by Gross.
- 40% of the FCO backlog was cleaned-up in the past week.
- the Card Reader problem was diagnosed as being caused by a bad lamp diode.
- PRT300 difficulties originated with either a bad VFU tape or an intermittent lamp, but with no on-line T+D's this was not realized until after many other paths had been explored--(the train was cleaned, a cog was slipped, we "lost" the clutch on ribbon reverse, etc.)--running OK now after two shakey days of operation.
- other potential hardware problems were identified (IOM writing same page into two different areas of memory, difficulty with Area-0 on DSU190) and are being explored.

H6180 Software Status

- there are a few 355 software problems in a 2-CP environment.
- all known software bugs will have been fixed by tomorrow morning, per Webber.
- Bulk Store Reconfiguration is all checked-out.
- HSLA (ARDS) software is "nearly complete"--Daley to check with Saltzer on the control of this and other projects which are being performed by MAC personnel.
- recent modifications to the Area Package have introduced bugs into the previously checked-out Card I/O software; fixed for the new bugs will be incorporated into the system this week.

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Communications, Consoles, Terminals

- Ryan requested help from Ohlin to connect the 28 new lines into the 355.
- the two TERMINET terminals have now arrived, but one has no table or pedestal.


Progress on Service

- the most critical hurdle is being able to reconfigure and run a 2-CP system.
- there were 23 system crashes from 4/23 through 4/29; 10-hardware, 9-software, and 4-other.
- Daley brought out the issue of whether we revert to an MIT-generated system or to a Honeywell-generated system when we get into trouble. After extended discussion, it was agreed and acknowledged that Service will generally be run with an MIT system and that ^{the} fall-back position is to the previous MIT system; only in cases of dire emergency will we resort to the Honeywell version.
- Roach encountered some problems in running the performance measurement tests last week, will be running them on third shift this week.
- ALM, Runoff, BCPL and LISP have not yet been properly submitted for inclusion in the 6180 system; Daley to check with Saltzer on this.
- an updated bugs list is attached.
- Roach reported that almost everything on his list of "Requirements for Start of Trial Service" has been completed and that the un-completed items are in progress and under control.
- by tomorrow, Burner will generate a list of requirements to be satisfied prior to the start of the so-called Endurance Test Period.
- May 14th still looks good for start of Trial Service.

Tech Square is all "OK".

Miscellaneous

- it was reiterated that there are no "spare" DSU190 drives on-site; when one of MIT's seven drives is "down", the whole Service System is "down" (even though the CISL drive is on-site and connected to the system).


R. E. Hoffman
Account Manager, MIT

REH/kmp

This segment lists some of the known bugs in 618J Multics.
For a list of known hardware bugs type "help hardware_bugs".

189 05/01/73 2 bug in freeen_ (when freeing an area part of which has been freed - see G. Dixon)
188 05/01/73 2 bug in command processor: ioa_ldate_time]"string" produces a quote in the output
186 04/29/73 1 need way to "flush" paging device ignoring errors
185 04/26/73 2 "cwd <dir" causes a blank to be inserted in wdir name
184 04/25/73 1 emergency interrupt from 355 if operator's console types too much
183 04/25/73 1 sub crecho mode can/does cause hangups again
182 04/19/73 1 card input does not work reliably
181 04/19/73 2 sub Salvayer deletes all links if date/time bad
180 04/18/73 2 quitting out of runoff can get a fault_tag_1 ref stack_4134316 by bcpl_alm_147
169 04/11/73 2 sub errors in admin mode can prevent operator from entering admin mode again
167 04/06/73 3 *backup gets an error when trying to terminate a MSF
166 04/06/73 3 sub down (probably bump * *) hangs up dialed consoles attached to the system
165 04/06/73 2 m19 *tssi_ removes "*.SysDaemon.*" from ACL of object segment.
164 04/05/73 2 ab PL/I I/O does not add ACL's on segments "file_segment_1" and above for keyed segments (-
160 04/03/73 2 absentee processes get terminated for no apparent cause
159 04/02/73 2 sub *Salvayer does not correct non-ascii ACL's (which are illegal to Multics)
158 04/02/73 1 sub *Problems with punch output (get many 7-9 punched cards with nothing else)
156 03/31/73 2 dc sac seemed to crash the system (ERF #271)
154 03/29/73 2 eds *deleteforce loops if cannot give access
152 03.28.73 1 sub Cannot QUIT I/O Daemon more than once (need cleanup handler in mrdim)
149 03/28/73 2 prtdim_ is not an entry point in prtdim!
143 03/28/73 2 sub terminate_process has to recognize new termination codes plus print correct logout messa
141 03/28/73 1 sub *reloader must be able to force access
140 03/28/73 1 sub *need reloader option (for carry) to prevent reloading of quotas
139 03/28/73 1 sub *need reloader option to force loading a segment (ignoring dtm)
136 03/27/73 3 *nd_handler gets access error when trying to unlink link to a MSF (should get no error)
135 03/26/73 3 eds *copy command doesn't copy segments correctly if no status access on containing directory
134 03/25/73 2 vv pae needs to be modified for daemon_user_table
126 03/21/73 2 sub cpo gets "a not found in ring 0." (improper call)
125 03/21/73 1 dmw ARDS do not work
114 03/13/73 2 rbs there are not enough "idle" characters for 300 baud lines (04/13/73)

* - problem believed to exist also on 645 (not a new bug)

(END)