7 APR 67
9-25-67

For the bugs of 8 Apr 67
See next book.
LM
3-4
9-10
New Hardware log. (Old one full)

Current state of machine:

Core and CP - Perfect

TTY2 Occasionally won't horiz space after CR.

MAG TAPE misses ends of file and data on low slice level, occasionally.

S. Russell

1245 7 Apr 67

TTY3 Trew its drive belt

7 Apr 67 2300

MAG TAPE no work. Vacuum pump won't come on. I don't know enough to fiddle, so left it in that state.

J. Sauter
The model 35 is a bank of

April 14, 1967 1:30

But 14 was not making it to
memory. Replaced 1665 in
CPU (broken one), works

\[ P. \]

April 14, 1967 0:330

MI bit 11 won't light. Fault is
not with bulb.

\[ J. \] Sauter

April 14, 1967 6:30

Worked several hours on Mag tape to
get it to recognize EOF's properly.

End result: Mag tape now doesn't work
at all. I am going home & did.

\[ P. \]
April 15 1967 4:30

Adjusted read delays in Moore center (556 only). May hope seems to understand ends of files now.

P. PET

Apr. 15 1967 2000


D. M. P.

16 Apr. 15 00

TV worked. Give same 3-bit samples as before, but packed into four-bit bytes, 9 per word. The low-order bit of each byte is 0.

D. W. C.
April 16, 1970

Mag tape Ship file (MTYPE <N>)
and Basic space file operation are not working. Will be happy to demonstrate.

Raj Reddy

April 17 1000

I checked MTG and it seems ok.

But there may be some bug in the software.

Raj Reddy

April 17 2330

Micro tapes seem marginal - system source tapes read with errors on DTA 3, DTA 4, IO bus trouble?

R. Saunders

17 Apr - Write a whole set of mag tape routines; checked them; found no trouble.

18 Apr. Some programs use dump mode. There have been successfully using dump mode except it occasionally looses a character after using tape a few times. So I tried to use buffered mode. Either there are some software bugs of the manual isn't clear enough about what you might...
and what you might not do. Raj Reddy.

4-18-67 9:00
THIS MORNING I CLEANED ALL DTA HEADS, CHECKED
STOP TIME AND HUBS—
cleaned out MTA HEADS, VACUUM COLUMNS ETC.
cleaned up LP
ALL ABOVE UNITS SEEM MECH. OKAY SAVE FOR SOME
SLIGHT PRAYING ON MTA FOUND CAPSTAN DRIVE
13 & 17

4-18-67 1940
TTY1 double character

(it won't if you don't bang on it)

4/20/67
TTY 3 is missing a screw on part
of the thing which maintains the direction
of the sprocket. Consequently the sprocket
doesn't move.

R. R.

No part for above.
20 April 1967

CORE PARITY ERROR, LOCATION 00000043747  OPND = 00000017746
PC = 75000025775  INSTR = 202101000000
DATE = 000635721550  TIME = 536:22

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 75000025775  INSTR = 202101000000
DATE = 000635721613  TIME = 606:53

21 April 1:00
The 167 terminates after one word of transmission from the TV regardless of commands given to it.

The 167 terminates after one word of transmission from the TV regardless of commands given to it.

24 April 2:30
There was a wiring hack in the disk drive that held WE -1 to ground.
So the above complaint was fixed.

24 Apr 67 15:22
Found lab supply for offset to audio input disconnected. It was over on table where Randy was fiddling with his movie camera last night. Reconnected supply.
CONT. —

In the process of reconnecting it, the outboard capacitor on the arm control fell off. I don’t know where to reconnect it so I won’t.

Electric arm should be marginal now.

P 24, 1970. RRussell

25 April

DT A 5’s shaker is not tight enough.

P 250

25 April 1430

Party over when we first heard TV today. About last word of transfer.

P 250

1930 25 Apr

Filter capacitor is again removed from elect arm.

RRussell

MT, but it doesn’t light. APR.
2015 25 Mar 69  APRIL - STUPID

CORE Ø WUNG,
NOT AW RG
PZ LAST
PMA = 364
CP MA = 364
167 was ABLE, but
clear except for
MA = 250 61

ERR

ON restart got
Error in Job $6
Not EX Mem at USER 4

ERR

0029 26 Mar. DITTY

BOTH SCORES DOWN.

OLD SCORE LOSES FOCUS, SYNC, MIND
IN DRAMATIC FASHION.

NEW SCORE BLOWS FUSE, INSTANTLY.

P. L. W. R.
26 April 67

Presistant Parity Errors. D. Poul
cFixed with a Magic Jumper Wire in the box next to Core C

26 April

TV reading into every section of my core. Stopped program at INPUT command and took both 4-word blocks for TV and rest of program OK. Executed INPUT and part of program wiped out. Should have read 100% and start at 6526. A block of words starting around 6410 was wiped out but not 1007 words with

Pingle

26 Apr. 67

Above bug was my fault.
It is gone. D. Poul

26 Apr. 67 1715

Don't use DATA CHANNEL! Core 3 drops address bit 21 from 167. Bill says.

D. Poul
My Hardware Works!

[D. L. V.]
4-27-67 15:00
Pete's Clock is hackery. I envy
sent it at 13:30 and my assembly
gives 17-11 27Jul-67

4-27-67 16:00
MY HARDWARE WORKS
System
K. Pangle is hacking

10:15 28 Apr 67
636 scanner stopped both send & rec
system stopped listening to teletypes

11:05 28 Apr 67
Core 2. Not in req. No last
nothing else

SRR
15:05
Core 0 not AWREQ P2 LAST
PMT 12377  Sticker

17:25  1 May 67
Core 1 not AWREQ P2 last

8:56  2 May 67

Line printer blew all 5 of
the circuit breakers (push button) in
the back. Turning them on was a
sufficient fix. A wild guess would
be that there was a power line
transient but there is no other
evidence of one.

1:30  2 May 67

Tweaked the 20Kc clock in A-0 kludge, it has
Drifted up to 23 Kc for reasons of its own (C15)
And changed 6 Kc clock (C17) to be 10 Kc now
11:05  2 May 67
6:30  Signed to stop line scanning SP1/0 reset
5T @ 140 curro it

11:45  2 May 67
Core 3 not AWAY P2 lost

14:10  2 May 67
Core 3 not AWAY P2 lost

15:55  2 May 67
Core 3 and Core 1
Both AWAY P2 lost

17:30  2 May 67
Calcomp Plotter showed 2 bugs, both intermittent

1) Utter lack of X and Y motion

2) Random Y motion with systematic X motion.

In both cases program seemed to be plotting normally and pen motion always happened. Trouble was not sensitive to connector jiggling or banging on plotter. Troubles disappeared before further testing could be done.

J. P. Russell
1900  2 May 67

630 rec gap onto tape
again line 6 scan flag

0845  5-3-67

PLOTTING HACKING - Pen up & down
but only occasional erratic moment on
x & y

S. Chui

11:00  5-3-67

I took the plotter apart and checked
all connection on interface, switch, cable,
connectors & plotter PC board, ran my own
plot command tape with system and it
worked fine on +x & y. Opened, checked
delays and pulses in plotter and they agree
with manual

Randy
9:40  3 May

SPACE WAR BUTTONS DO NOT WORK.

Bits 30 and 28 are always on. We need NEW buttons.

Pingle

Reddy

10:00  3 May

R 123 in R 9 in 167 had bit 30 stuck on.

Changing fixed it.

SPACE WAR BUTTONS now seem to work.

Reddy

15:15  5-3-67

CITY gives 2 line feeds for price 1
1530 3 May

LPT sometimes gives "in C"

Pajlo

2300 3 May 67

Chased MAGTAPE bugs -

Found that if tape is spacing forward and unit is put in local and rewound
then the magnetic tape control hardware is completely reset. The system, however, is not, and waits forever. Restarting system at 1470 cores.

Also saw the mag tape stop when a file was saved or deleted.

Mag tape had

Beginning of tape | Short record | EOF | EOF | EOF

PGM was going: SKIP TO LOG. END OF TAPE MTAPE 1, 10

Backspace file

PGM ended up with magtape 1 selected.

2300 3 May 67

TTY #4 loses on both AUT MODE & RUBOUT. printed by LFT.

sometimes

Arthur
2345 3 May 67

Mag Tape editor disconnect
Bug did not repeat.

LRT

0815 4 May 67

TTY 2 is missing characters or something funny is happening. The system is not dead. But it doesn't seem to listen to TTY 2.

Rej Reddy

1815 4 May 67 of A-D
Clock 1 and clock 3 seem to be recording much faster than their rated speed. Using 20 KC clock I can only get about .5 to .6 seconds of speech instead of 1.5 second into a buffer of 10,000 words.

Sorry My mistake. Rej 5 May

Rej Reddy

2215 4 May 67

Chased Mag Tape bug.
Found a read error with 510/516 data file.
Cleaned 545 tape path thoroughly.
Error went away.
2215 4 May 67

Ray Reddy's errors still were close

They showed as:

1) Many characters in records

2) Getting into skip to 0 mode

Current state:

Time shared program fail
Bare machine tests work.

Also cleaned all dactypers. No noticeable improvement in their performance either

H. Russell

2230 4 May 67

Calling the dactypers dactypers seems to

0910 5 May 67

CTV gives multiple many lines
for 1 line feed, sometimes

H. Russell
11:55 5 MAY

Terminating resistors on M.R.S. pulses to each core box have been changed from 100Ω to 47Ω in hope that it stops the noise bug on these pulse lines and put an end to the mystical core hang up bug — let us see.

10:30 Ran deck tape test as follows:

Unit 3: Utest, DC test, EXDATA

On one scratch tape use EXDATA found some bad block marks but ran fine with another scratch tape.

Ran all more on bad tape and then ran EXDATA again, it's now good tape.

All in all the units tested seemed okay.

11:55 TS main ran fine for 10 min. Auto BLT for 13 min on it to 15 OKAY.

G SWAFU ————

Randy
15:50
LPT has been cleaned up
I took cover off drum and scrubbed
it down, aligned tractors, vacuumed it out
and Adjusted hammer penetration etc.

5/18/7
Carriage screwed up on TTY 3 -

DCS

5/18/7 TTY 3 dashpot has bad rubber bumper

Pluck, sometimes it wedges itself, its to

loose. No replacement for it - wrapped tape on it

To help it seat tighter

GOT NEW PART FROM PDP-1 IT WORKS

8 May 67 10:30 TTY 1

Sends double characters

A + carriage return

5/18/67
DIY has been checked over and this
is what we found.
The margins in dictape control were okay, but
for 1A to A, -2V was as far as it would
so
I made up two 1033 caps and Steve and I
checked margins + the line up for 4523 Manchester
Boards and found the MARK TK Reader Amp (1A24) marginal. After I tweaked it margins are now 1A +10A -35V +5 seems to work fine now.

PS Liner procedure was from H-551P.

Page 6-6, 6-7.

↓ 4 sec turn around prog.

for test

TIME DELAY WRONG, ADJUST

PROCEEDING

40000/ TIME VERT, @62001 (ARRAY)

40001/ STATUS RAN, @62176 (AC)

40002/ TIME VERT, @62003 (ARRAY)

40003/ STATUS ERR, @62190 (RAN)

40004/ TIME VERT, @62005 (ARRAY)

40005/ STATUS ERR, @62222 (WCM)

40006/ TIME VERT, @62007 (ARRAY)

CONO 210, 33703 0

HRLI 0, 2

SOJGE 0, 2

CONO 210, 32703 0

HRLI 0, 2

SOJGE 0, 2

SRST 40000

FOR TEST

also with DT test 37/37777 77777

5/8/67

Randy

1915 & May 67

Tried Bill Whelan's famous old marijuana decrype. It's still marginal DAMMIT!

Sorry about that Chief.

J. F. Russell
8 May

 Arithmetic Overflow not working. See J. Foster for details.

P.vogt

9 May

Teletypes 0, 3, 7 not operable.

Manfred H.

TTY 3 has been cleaned & oiled and it seems to work now. The space suppression lever would stick and the carriage would over print characters.

TTY 0, 7 when looked at seemed okay. Nothing can go wrong. Will look when they are acting up.

R.w.e.
10-MAY-1967  0700

Traced Karl Pingle's AROV bug as far as the hardware. Came to the following conclusions: It works all right if there are no other interrupts on the system (that's why INSTR TEST doesn't show it, nor TS main) but if you run a program that gets AR OVF trap and push a key on a tty, the instruction following the one that gets the overflow will sometimes be executed (this is true if the following instr is a JRST or a JFCL, did not have time to test other instrs). I planted a patch in the system to save the PC in the case of AR OVF trap, and by the time you get into the APR channel, the instruction following the one that got the overflow had been executed.

John Sauter
May 10 - 1967

RUN-AWAY MAG TAPE STRIKES AGAIN

R. Ready

0955 10 May 67

630 hung REC scanner

Line 3

[Signature]

KKRuse

1300 10 May

4-BIT DIGITIZER INSTALLED

IT KLUGE LANDSCAPED SOMETHAT

DRAW'S UPDATED. NOTHING

TESTED YET.

[Signature]

TYPQ repeats letters / Hueckel, M.

0945 11 May 67

Core OK, hungry on a RD only cycle.

AQ 32 AN RQ and PR ACT

CP was IF1A MC RD
5-11-67

TTY2 garbage characters

1853 11 May 67

Signal cable to line printer is intermittent. TAB steps didn't work.

I moved the printer to get the signal cable bent the other way. Tabs now work. Cable should have the line printer end fixed so it doesn't open when flexed like so:

```
  I
/  I
```

Cable is now:

```
  I
/  I
```

and works.

Tested decodes at great length this after. Found that re-adjusting the 4523's exactly as said in manual, and paying careful attention to the scope picture shown, gave -6 V margins on IA + 10A much better than sloppy procedure.
A few dectapes still give errors especially on DTA 3. Perhaps there is marginal writing going on?

R. Russell

11 May 2100

TRY 2 not working properly. Sometimes it doesn't type the proper symbol, sometime it doesn't type anything if a key is depressed. Mostly it seems to get wrong symbol.

D. Rep.

12 May 67 9:30

Above is suspected of being in the 630.

R. Russell
12 May 69

LPT HAS BEEN FOUND!!

The connector in the 646 is very marginal.

It has been taken apart and now pins have all been inserted. It is better now.

— It is less marginal —

Don't fool with it unless it's necessary!!

And use proper tools if you do.

It's not as sturdy as it looks.

P.S. It now tabs

Randy
12-MAY-67

Console teletype sometimes gives two line feeds for the price of one.

J. Sauter

12-MAY-67 0500

A file I had been editing for quite a while on DTA2 started getting input errors. Moved it to DTA1; errors went away.

J. Sauter

13-MAY-67 0430

New line printer ribbon.

J. Sauter
13 May 67

TTY 2 does not take care of TAB's in both Mode (input or output) and other defects.

P. Vickers

Printer skips some supplementary pages.

P. Vickers

14 May 1967 2230

LPT had blown "PRINTER" breaker on main power panel. Motor would not run, permanent "ALARM STATUS".

Reset breaker. No visible smoke.

D. Rock

15 May 1967 0830

REJOICE! POP-10

COMPATIBILITY IS HERE

NOW!! FSC NOW NORMALIZES ITS RESULT. EXCEPT FOR UINS5, WHICH DOESN'T SEEM TO APPRECIATE THE
GLORY OF THE NEW ORDER, ALL
NON-PORNOGRAPHIC POGROMS WILL WORK
AS BEFORE. INTEGERS < 2^{27} CAN NOW
BE FLOATED BY FSC A, 233.

D. N. ROBI

P.S. TWO ASTRONAUT CONNECTIONS
WERE GENERATED, NEAR 1KS AND 2C2.
THEY SHOULD BE FIXED.

D. H. L.

TTY 2 drops and garbled characters
when it has been setting idle. After 0
use it a few minutes trouble seems to go
away.

P.

30
TTY 4 was not printing tabe.
Result was text printed as if
not tabs existed. Switched
to TTY 5 and problem went away  — Preper

15 MAY 0800

GLORIOUS PROGRESS
MARCHES ON!! NEW POWER
AND GENERALITY EXISTS
IN THE POP-6, NAMELY,

FIX AC, XXX 000 (FIX = OPCODE 130)

WILL FIX THE FLOATING PT. NO. IN AC
(IF IT IS LESS THAN 2^27 IN MAGNITUDE).

BINARY PT. WILL BE AT RIGHT OF
BIT XXX_8 - 179_8 (E.G., XXX = 233 FOR PT. AFTER BIT 350).

DOES NOT ROUND.  — W.P.
16-MAY-67 23:45

TTY6 is missing a screw.

J. Sauter

16-MAY-67 23:45

Paper stacker on line printer doesn't work; rollers don't roll.

J. Sauter

5-17-67

The slide graphic prepump is down!

Apparently it has no AC-DC or both — it's a long job just to get cover off to even look at it.

Will look tomorrow night.

5-19-67

Randy: Could you put the cover back on again now that it is said to be fixed.

Rai Roddy
1300 20 May 67

Raj - repairs aren't finished yet,
the lamps are still burned out.

J. Russell

5 - 20 - 67

Joint 2 pot in try jet paper.

5 - 20 - 67

Preventive maintenance on all
Model 33 teletypes,
New platen on Ser # 39466
Bed motor shock mounts on Ser # 37788
Replaced main shaft and bearing and
cap Ser # 52576
Replaced main shaft and bearings Ser
# 53384
Adjusted blocking levers, Ser # 34467
Adjusted Model 35 to prevent double
line feed, checked all other troubles
as indicated in log book and
adjusted as required 2 x 7

20 May 67

CORE PARITY ERROR, LOCATION 000000076775 OPND = 777773407410
PC = 74000004242 INSTR = 33600000740
DATE = 400636122752 TIME = 1536:21

J. Parzade
21-Mar-67

CTTY doesn't TAB

P. P.

21 Mar. 1967

Bug works again. Trouble was caused by some J. Random Benedict plugging two things into same inputs.

P. P.

22 May 67

TTY3 stays at left margin & prints black rectangles. I don't need black rectangles. You don't need black rectangles.

23 May 67

Therefore it gives the black rectangles to me unscrewed.

Will whoever unloaded the space buttons put it back in its shape?
23 May 67

1. Angel has sent me the second set of paper puller drive belts (not belts), they don't seem to work that way as a belt. That is, but anyway, here's hoping that the new set that came will work. I put one on this morn and it fits, anyway.

I understand there's a pool (not pool) on the life expectancy of an Angel paper puller drive belt.

I installed it right but I'll go down on the list for 3 weeks.

2. The Space war buttons are marginal (contacts), the cable seems to have a broken wire (its solid). And in general, everyone has complained about them for the last two years. So, for the above reasons, I'm pleased to say: The World Premier of Jorben Boxes + Flex wire will be shown for the first time anywhere.

Where: 1600 Alastair Dene
Donald C. Pauwels Lab
Room U-15

Starting on Thursday 23 May 1967, 1800 hours

Admission: Outs to put up with new and confusing signs of rules. Hurry! Before they change again!
25 MAY 67

"It's a non-ex ment", said Steve haltingly.

25 MAY 67

Are

Spares boxes have now been used

in place of old sw buttons

Beware!! the sense of the buttons

are now backwards from what they

were!!!

10B bit? is turned on by pushing

the app. button

PS: The O.A. of clock will

Be down for power supply mods. Really

for several days shelf permitting

0945

26 MAY 67

CORE 3 NOT AN REQ

0030 27 MAY 67

Chased "skip to infinity"

MAG. TAPE BUG.
FOUND: NO TROUBLE OR SIGN OF TROUBLE
WITH MAGTAPE HARDWARE.
FOUND THAT IT IS ADVISABLE TO PUT
AT LEAST 1FCL'S OR EQUIVALENT BETWEEN
FOO1: @
CONSO 220, 1
JRST -1
NB

This seems to be a feature
due to the 800 bpi clock having
a period of 27.1ns. This is "CL1"
used to step the 4-Flop.

Anyway it's a trip for simple
diagnostics, but no other programs,
we think.

Tried writing file with a few
records with TECO in the system,
and then skipping to end
of file with TECO using
No trouble found.
This last all-em test seems, as well as I can see, to duplicate Ray Reddy's program that was giving all the trouble.

LRR

05-27-67 07:00
Petit's clock gives lock ZERO for both CONI and DATAI.

John Lauter

05-27-67 12:36 (N. RANDOM BENEDICT, NAMELY)
Some idiot disconnected power to the DEC part of the clock & then didn't re-connect it. The same was done to the DtoA. I reconnected the clock but not the DtoA.

P. R.
05-27-67  14:15

I believe I have discovered
the cause of the skip to infinity bug.
It is software. It seems the system
sometimes transfers a junk command to the
control. See me for details.

P. R.

20:00  5-27-67

LPF stops for no obvious reason
sometimes with no PAPER ALERT on.
I kicked it a couple of times & it's fine
now.

Another

0900  27 May 67

Found mag tape "Skip to Infinity"

Bug: Fail-2: Extra wire from
3625V (— CM Ser) to 3624V in 516
input to cono 220, SET. Removed
wire. Works now. Effect was
to strobe current contents
of IO BUS into COMMAND HOLD
buffer when skip to EOF went away.
(i.e. I saw an EOF)
29 May 67

Adjusted write lock detector on MTA φ

Cleaned MTA φ

Tested with MAGTST in system

Got some complaints about
bad scratch types
(they very likely are bad)

ARR

28 May 67

TTY2 frequently hears typed input incorrectly!

C. Fanell

29 May 67

TTY2 occasionally sends two char
for the price of one (second char seem to
always be a ZERO).

J. Lauter
TTY2 has been fixed?!!

By Gonzalez...adjusted one back...dummy held...tried tet...from hybrid...Randy.

Beware of unsecure soldering...19005...they can get hot on the...boppers...and do lots..."of damage"...to you or equipment.

Please use new u-ground...contacts...They're cheaper but...safier...Randy.

Spaceman...buttons...29 and 31...intermittently...stay on...trouble seems electrical rather than...mechanical)...Beware...Witmer
14/20  1 June 67

**T.T.Y.** Do you think that
main shaft is locked.

[lkr]

1 June 67

The P Clock, SPC 18 DAC, EYE (III), and Reference
Supply are now on their own AC Bus and 728 Power
Units.

In a very short time all A-D-MUX inputs will go
to the Moby-Patch Kludge in the top of Bay 2.

To make it as flexible as possible I have made
each group of 9 channels split into 3 subgroups
of from 1-9 channels.

So long as the three subgroups don't share
the same channel nothing can go wrong!!

It is expected that the users cable be plugged
in to one or more subgroup slots, and then
be patched in to the proper channel on the wiring
side of Bay Two.

Also there is (3) Dual Output Reference Supplies
that appear on the wiring side of that
Bay, so that, they too can be patched to the
user cable.

Power Supply 
All in Bay (2)

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10</td>
<td>B30L</td>
<td>B31L</td>
<td>+8.10</td>
</tr>
<tr>
<td>-10</td>
<td>B30N</td>
<td>B3N</td>
<td>0-10</td>
</tr>
<tr>
<td></td>
<td>CND</td>
<td>B32P</td>
<td>CND</td>
</tr>
</tbody>
</table>
June 2-67

Repaired 3 model 33 teleypes
Set# 52515 double tripping adjusted linkage
Set# 53385 replaced distributor hub and belt
Set# 53384 replaced belt and 1.8720 gear.

June 2-67 2:400

Tore 1 (100 ft) roll of 16MM TRI-X in computer
Room of Following:

130 Display - Spectrum + text mode (it was hard to matrix
but made four 10 sec exp. at diff. F & SPD)

TV Monitor - tripod 3 diff SPD to see effects

Computer room as a whole -

Close up of chess board - to check depth of field
as well as exposure

+ a few other shots in room to use remainder
of film

The bulk of film was shot at 24fps
with the exception of TV + display
so the run time will be 2min 44 sec
I think enough to check the results

P.S. The first roll was exposed at ASA 200
which is normal for movie film
After we see results
I may push it to 300 -> 400 ASA
also have some ANSCOCHROME 200 ASA
color to try but want to see first
roll of B/W film first
0120 - 7 JUN - 67

The plotter operated on FORTRAN output
with plotter-pit punch switched on the punch;
the operation was on the order of 1/2 normal speed

R. Wesley

0925 8 June 67

above is not a bug, it is a feature!

KKR

TTY3's left leg needs fixing

MHH

4 June 10:00

OTA3 gives random DATA ERRORS
in types which seem OK on other drives

R.G.
RESULTS OF 100' ROLL OF TRI-X IN COMPUTER ROOM

<table>
<thead>
<tr>
<th>SCENE &amp; SUBJECT</th>
<th>F STOP</th>
<th>SPD</th>
<th>DISTANCE TO FILM PLANE</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 130D8 50MM T/LENS</td>
<td>1.9</td>
<td>24 FPS</td>
<td>5'-9&quot;</td>
<td>OVEREXPOSED</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>&quot;</td>
<td>&quot;</td>
<td>BETTER</td>
</tr>
</tbody>
</table>

6/8 67
Q1 Connected to I/O Bus
Device 734
System still works?
Device not checked out, so do not use

1/8 67
LOU.

1/30 8 JAN 67
Cleaned MAG TAPE
Tested it for 5 min. It still works.

3/00 9 JUNE 67
LPT has trouble hanging onto forms (top sprockets)
C. Farrell
6-9. FILMS: TRI-X 200 ASA B/W 16MM REVERSED

First Four SCENES were OF 130 Display

Showing SPACE WAR, FILMED UNDER FOLLOWING PARAMETERS:

LENS 50 mm 1.4 FROM TV CAMERA
DISTANCE 5'-9" TO FILM PLANE
DARK ROOM

First Two Exposures 1/4 @ 24 FPS
2 @ 24 FPS

Next Two 1/4 @ 18 FRAMES PER SECOND
2 @ 18 FPS

1/4 @ 24 was clearly overexposed
2 @ 24 was better but ships were still slightly overexposed.

Note @ 24 FPS there was a definable FLICKER OF
Display on Display Refresh Rate is 30 P/S.

1/4 @ 18 was poor
2 @ 18 was better but should be set 1 step down
for best results.

Note @ 18 FPS the flicker was not as noticeable
as above.

Suggested Exposure for above film 250-200

F 2.8 @ 18 FPS

If Flicker is a factor slow down to 16 FPS
and do NESS. F Connexion.
The next four scenes were of text on 130 display.

Same parameters
Same suggestions

F 2.8 @ 18 FPS

The next two scenes were of chess board to check depth of field/field and grain of emulsion. Grain was good but be damn careful of focus.

Parameters of scenes:

Lens: 17 - 85 mm zoom Pan Cinor, F 3.8
Normal room light, taken at midnight, so that it would be worst case, i.e., no world light [sun] thru windows.

#1 3.8 @ 29 FPS
17  85 mm  34½" to center of black pawn

#2 3.8 @ 24 FPS
17  85 mm  39" to center of fifth pawn

From left.

Note: All distances are from center of sub. to film plane mark on camera body "o"
Following three scenes were of TV monitor

Parameters:
LENS 17-85MM PAN CINN ZOOM F 3.8
Room LIGHT

1 3.8 @ 24 FPS Medium Black Bars / Poor / Good Exp.

2 3.8 @ 18 FPS Large Black Bars / Bad / Good Exp

3 3.8 @ 32 FPS Thin White Line / Good / Good Exp

Notes: It is very evident that we should shoot at a slow speed to avoid bar bars. I think that 18 FPS is a good SPD.

We can eliminate to a great degree the white line by using Variable Shutter control and shoot a test roll with it.

Summary: With the proper equipment we will be able to shoot and document anything that we choose provided the following features are incorporated into camera

1 Reflex View Finder with Pellicle Mirror System
   Pell-1-KI

2 Variable Shutter Control
16 mm Type of camera

Lots of supporting equip. in availability

Motor Run Option VARI-ELECTRIC, CONT.; SPD, RTC.

Expandable Film Run (Magazine) Option

Utility Type of Camera (Rugged)

And so forth.

Since I have, as a means of living, in the past used most all system that are currently avail., I would suggest the following model and gear:

**Bolex H-16 Rex 5 Camera Body** $650.00

**Unimotor Drive 12-32 fps** $97.50

**Swinar 25 mm 5/1.4 RX Lens (Standard)** $168.00

**Macro-Swinar 8/1.4 RX Lens (Tele)** $200.00

**Pan Cinar 85 Compact Zoom** $250.00

**400' Mag** $170

**Take Up Motor** $45

**MST Motor** $240 +

Randy
DOOM!

System killed repeatedly at intervals of seconds by parity errors in code L. AUTO not done fins.

D. Rock

Locations:

4005
6015
6985
405
66045
4005
27747

(plus numerous errors in the parity error routine)
9 June 1967 21:30

The stupid brushes are worn out
AGAIN (so soon?) on the
May tape. Some idiot carelessly hid
the spares. Probably said idiot should
replace them. Perhaps someone should
send a bomb to DEC or at least find out
why we go through brushes so fast.

(Brush life is only 200->350 hours / there are no
spares)

1967 Jun 9 2200

Printer has torn paper 3 times this pm.

RASamuel

1830 10 Jun 67

Probably brush wear was due
to rubber sponge particles
in vacuum system?
TTY 5 is sick. Types of all kinds of funny things.

R. Lee

We have no bananas?

1900 10 Jun 67

Ran some tests of intensity on type 30 display with a Foot-Candle Meter of doubtful accuracy.

<table>
<thead>
<tr>
<th>Intensity</th>
<th>Reading - FT/candles</th>
<th>DIFF</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>13</td>
<td>11</td>
<td>1.84</td>
</tr>
<tr>
<td>6</td>
<td>24</td>
<td>12</td>
<td>1.5</td>
</tr>
<tr>
<td>7</td>
<td>36</td>
<td>10</td>
<td>1.3</td>
</tr>
<tr>
<td>0</td>
<td>46</td>
<td>11</td>
<td>1.24</td>
</tr>
<tr>
<td>1</td>
<td>57</td>
<td>10</td>
<td>1.15</td>
</tr>
<tr>
<td>2</td>
<td>67</td>
<td>9.5</td>
<td>1.12</td>
</tr>
<tr>
<td>3</td>
<td>75? (off scale)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2230  10 Jun 67

adjusted brightness so that 30\% of

<table>
<thead>
<tr>
<th>Intensity</th>
<th>Reading ft(^2)</th>
<th>difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>12%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>+10%</td>
<td>-1</td>
</tr>
<tr>
<td>7</td>
<td>x 5%</td>
<td>8</td>
</tr>
<tr>
<td>0</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>1</td>
<td>22</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>31</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

conclusion:

for the range involved

the scope is essentially linear.

tight output increases by about

8 - 12 ft candelas. the movement

seems less at unmeasurably dim levels.

CONTINUED —
with intensity read for INT 3 = 40 ft candles
and using a new meter with log scale.
1) set int 3 = 40 ft candles
2) set int 3 = f 16 on exposure scale.
3) get following 1:64 range of brightness

<table>
<thead>
<tr>
<th>int</th>
<th>f stop reading</th>
<th>ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>2.0</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>1.0</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>0.0</td>
<td>8/16</td>
</tr>
<tr>
<td>3</td>
<td>16.0</td>
<td>64</td>
</tr>
</tbody>
</table>

Intensity 4 at this setting is
perhaps very likely 1/4 of intensity 5 but
it's too faint to read.

Restored intensity to its previous initial
level i.e. int 2 gives 67 ft candles.
I suggest redoing exposure mirror
to take notice of the above findings
and then reset at resetting the intensity
for 3 = 40 ft candles.

LHR
1100 11 June 67

Printer didn't want to print long case "r". Drilled with lights until it worked.

[Signature]

1400 11 June 67

Realigned tractors on LPT in hopes to cure tearing of paper.

Started from scratch and reindex everything.

Let me know if it works.

[Signature]

1515 11 June 67

DTA 6 is too tight.

[Signature]

0216 12 June

Now LPT can't even find upper case characters.

[Signature]

12 Jun 67

If a program is moving DTA3 and somebody uses the forward or reverse switch on DTA4 then either the system dies or the guy using DTA3 gets screwed.
10:30 12 Jun 67

LPT code wheel lamp assay. Underway

Precision alignment today (Two layers of IBM CARD STICK)

IT works.

Randy

Q. "Device 734 is connected and the interface works — The Deflection DAC's do not work however. The PI interrupts are not connected, so that no PIs can occur — The device may be used in user mode — See Lou Paul for write up"

21:30 13 Jun 67

Joysticks now work. Sense is 15°.

CH n = multiplexor channel, n

The following code works in the system:

CALL I
INIT 1,17
$ (XBIT /AD/)
O
CALL 12 / EXIT
INPUT 1, PARAM
HALT
PARAMS:  IOWD 4, BUF

BUF:      q
         q
         q
         q

PARAMS:  IOWD 4, BUF
         4150
         122600
         q
         q

BUF:      q
         q
         q
         q

; CH 12  RANGE 1424 - 4654
; CH 13  RANGE 2565 - 5096
; CH 14  RANGE 651 - 4701
; CH 16-  RANGE 2931 - 5053

; NUMBERS ARE 12 BIT  
2'S COMPLEMENT  
(SIGN BIT NEEDS EXTENSION)

; CENTER POSITION IS  
ABOUT ZERO (±10 or  
50)

SNAFU on  
TTY4 and TTY2  
LRC

B.P.
15 June 9:10

LPT is down.
Breaker labeled "printer" was off when I came in and blows every time the start button is pressed.

Karl

15 June 9:11

TTY 2 needs small balancing characters going in incorrectly. See attached sheet.

Pops

PS We really need plugs on the TTY if TTY 2 becomes unworkable the eye project will be in bad shape.
15 June 9:15
Fall timer has problems. Let offnum and drift

Karl

1900 19 June
motor
Prin printer a breaker tripped
Motor wouldn't start.
Reset breaker and started
motor by hand. It worked

KRR

15 June 2:00
A-D is not reading joy stick pot
correctly. The trouble is in the A-D, not
in the joy sticks.

BP

16 June 13:00
A-D trouble was caused
by 2 woods in 108 interface
giving -15 V. outputs. A B285 in
the multiplexer was destroyed by
this.

I. Mr. Ba...
17 June 1960

Spacewar buttons (on joy sticks) installed. They use IOB 22 and IOB 23. See \underline{blue} drawings for details.

Also A-D is screwing up again. B.P.

\underline{Parity Error, Location} 000000036755 \underline{OPND} = 500000000005
\underline{DATE} = 000636303534 \underline{TIme} = 2124:13

\underline{Parity Error, Location} 000000000.5,55 \underline{OPND} = 000000016377
\underline{PC} = 740000005755 \underline{INSTR} = 000000000000
\underline{DATE} = 000636303534 \underline{TIme} = 2124:33

\underline{Parity Error, Location} 000000005755 \underline{OPND} = 000000000000
\underline{DATE} = 000636303534 \underline{TIme}
17 June 11:00
TTY2 is not working correctly - character not typed.

P.S. Vics.

20 June 02:00
Still SNAFU at TTY4 and TTY2

Compatibility box installed in the hope that all men may once again love his brothers.

This box will allow anyone to use the type of switches which feel best to his fingers, without getting K. Pingle all angry and sick inside. It also allows for the addition or reconfiguration of switches without availing on the 1676 (i.e. put plugs on switches, remembering to wire they are the plugs so that both sets compatible with the compatibility box). For details see huge drawings. For details of details see me.

Bill Pitts
19 June 1967 9:00

**T.T.Y.2** does not work at all. Notice was given that it was getting bad on 15 June with the note that the T.T.Y. is very important to the hard-core project.

S. Russell says all backtwoe malfunctions should be logged. He might get a better response if there was some indication that the hardware people even read the log.

6-20-67
T.T.2 Sep# 34467
cleaned distributor and keyford contacts
adjusted belt tension

T.T.4 Sep# 53384 gear pmt bracket on motor
loose (minetc) adjusted belt tension and
code war reset bail.

June Gonzalo

6-21-67 0400

**KAMERA KLUGE IS DIFFERENT:**

Width is now counted in words, not samples
(offset still counted in samples).

N.B. $\emptyset = \infty$ (at least in word counts).
21 June 1967 1100

TTY2. Looking again. Cannae goes in as live feed on same feed.

LPT is skipping extra pages. It isn't bad yet but I am confident it will get worse.

21 June 12.00 TTY's will be fixed on 23 June.

21 June

TTY5 does not respond to "rub out" key.

D. Preph

8/21/67

LPT is giving 24 form feeds for price of one again.

O.W. Weible

Jun 21

TTY KBD dropping bits. NAS.

6/21/67 LPT was lubed today on all main shafts. They seemed hard to turn. Bearings had belt particles in them. Main drive motor now draws less current on start up.
0748  22-JUN-67

I tested all the untested, unclaimed, numbered µ TAPES from AEC. Returned good ones to box, generated tall stack of bad ones. Now somebody needs to number the rest of the tapes.

John Sauter

22-JUN-67

MT bit 11 does not work.

P. Wel

23 June  8:50

TRY 3 misprints sometimes
Eg. 4T printed A when I key hit

Bruce Buchanan

23 June  9:00

LAMPS for LPT just came, will take down later

Randy
23 June 9:00

LPT is skipping pages.

This is the 3rd time in three days that this fact has been logged. I feel the LPT definitely qualifies for emergency maintenance.

P.S. It now skips three pages at a time and goes out of ready status.

23 June 13:00

LPT has been fixed!!

The following was bad or wrong

Format Disc Block was out of phase with Sprocket wheel

L/C Lamp Bracket was bent wrong
TTY 3 TYPES RANDOM CHARACTERS
IN PLACE OF RIGHT ONES

Pierre Viens

FORMAT LAMP UNIT HAD A BURNED OUT BULb.
CODE WHEEL LAMP UNIT " X D IM 11

AS A PRECAUTION ALL LIGHT SOURCES HAVE
BEEN REPLACED WITH NEW UNITS

Bill Wick, Bill M., Karl, and other
Hackers say that it would now

Randy

23 June 14:00 All TTY's will have 12 PM
Now and a margin run on 630

23 June
Randy & Jessie

Ram margin test adjusted range finder on
TTY 2, 3, 4, and 5 also adjusted hybrid contacts on
TTY 2, 3, 4, 45 all machines working OK to

Jesse Pongale

June 24

I found 1PT in Alarm Status.
Breaker marked Printer had tripped
DC Alarm on top back panel. Burned off
and reset breaker. printer now seems OK.

24 June 1966

MORE GLORIOUS PDP-10 COMPATIBILITY

(MORE AND OTHER GOODNESS)

1. UU0's Ø-37 (USER UU0) TRAP TO USER CORE.
2. IOT USERS CAN NO LONGER HALT OR DISMISS BREAKS.
25 June

MI Bit 11 does not work.
Someone should fix it.

P. P.

6/26/67

Lift down. Large flywheel will not turn. Makes horrible squeaking noise as if bearing wound and oil.

W.B.W.

6/26/67 - 7:00

Looked at Printer. Bad bearing in paper feed clutch.

P. P.

OVER FOR BIG MSG.
TTY 2
DON'T WORK
WORTH
SHIT

ECHOING WRONG CHRIS AGAIN.
27 June 2000
MI II has bad indicator driver. SHOULD BE FIXED.
D. W. P.

28 June 0100
LPT?
B. P.

MAG TAPE
Remote bulb burned
P. Vicens

TTY4 PRINTS WRONG CHARACTERS
B. Buchanan

A white level Ex Mode is now on
The IO Bus on Plug 4 pin K
It is driven by an Inverter (2M6) and
The line is unterminated
It is ground whenever the machine is in
Executive Mode.

Lou Paul

28 June 67 1800
The UPT now has a new clutch
Do to a mix up it would have been put in sooner but anek had their heads up their a---s
Thanks to "Area" for installing it !!
July 1
Scope going off at random times seems to have been due to loose resistor boards in 1A2-1A3 of 136.

July 3
FTY5 doesn't accept mount. Inconvenient.

Eric Sandeman

July 3
MI bit II doesn't work. Someone should fix it.

July 3
CRT Ribbon is new.

July 3
CRT problem at July 1 still here.
3 July 67

I think that I found the problem with scope 136, FII 2yr.

It seems that 105.5 was connected to the select output of device 700 (600) and being grounded at the wrong random time; it's been fixed.

4 July 67 10:17

Core 7 just stopped to salute the flag. Not to recreate.

4 July 67 15:00

Scope continually goes off.

5:11 C.

15:05 4 July 67

Core 0 not aware rec.

5R

02:30 5 Jul 67

Removed F4A from CP ini x.

This removes a bug in memory protection by proj MAC (effective addresses of POP, POPJ, BLT & JPA).

See twx; no observed no trouble before or
After but the bug should generate 2 pulses in MC about 150ns apart. This should have only obscure effects. Only effect of change is to make
BLT POP POPJ JRA ROTC ASHC MUL
YOU 150 NS LONGER

TWX

OH WELL, THE PROBLEM CONCERNS MEMORY PROTECTION VIOLATIONS. IN OUR MACHINE THERE IS SOME ILLOGIC IN THE MEMORY CONTROL
THAT TRIES TO SPEED UP AC AND IR REFERENCES IN LOSER MODE.
THERE IS AN "OR" GATE IN SLOT 1 IN THAT DETECTS AC REFERENCES
BY LOOKING AT THE MEMORY SUBROUTINE FLAGS. ONE OF
THES [FLAGS IS F4A. THIS FLAG IS SET BY FAC2 (FETCH AC+1) REFERENCES
* THE IDEEAXXX IDEA IS THAT F4A MEANS THE REFERENCE IS TO AN
AC AND PROTECTION VIOLATIONS CAN'T OCCUR. HOWEVER THE TROUBLE
LIES IN THE FACT THAT THE DXXX SMAE FLAG (F4A) IS ALSO USED
FOR F )XXXX F(C(C AC LT-RT)) REFERENCES. [BLT POP JRA POPJ] THAT
CAN CAUSE ILLEGAL MEMORY REFERENCES. THIS CONFUSION IN THE DESIGN
RESULTS ISXXX IN SEVERAL TIME CHAINS RUNNING AROUND THE MACHINE
SIMULTANEOUSLY, TO NO GOOD.

THANK YOU. THERE ARE NO HACKERS HERE BUT US CHICKENS, BUT I
WILL PASS THE MESSAGE ON

OK THIS IS J. HOLLOWAY AT PROJ MAC.
Rye?
This is Lou Paul Bye?

Also the following suggestion
was sent by MAC. I have not analyzed
things, but the described effect is familiar.
HELLO.
WHO ARE YOU PLESE?
MZXXX MAC HACKER. WE WANT TO SEE IF A HACK IN OUR MACH IS IN YOURS.
MAYBE I CAN HELP YOU. PLEASE DESCRIBE HACK.
WRONG PC STORED ON MEMORY VIOLATION
WE HAVE NO EVIDENCE OF THAT, BUT WE SOMETIMES GET WRONG PC ON AROFV TRAP DEXX DUE (WE THINK) TO INERTIA IN INTERRUPT HARDWARE.
YOU ARE WELCOME TO EXPERIMENT WITH DDT. THE EXEC WILL PRINT THE PC WHEN YOU REFERENCE ILL MEM.
THE AROV LOSS IS PROBABLY DUE TO THE 4151 IN THE PROC PIA DECODER HAVING SLOW FALL TIME. IN OURS IT BREAKS ON THE ADDRESS CYCLE OF NEXT INST. TRY PLUGGING IN A 6151.
THANKS. WILL INVESTIGATE. YOU CAN HAVE DDT.

WE DON'T HAVE A 6151 SO WE CAN'T CHECK RIGHT NOW. A 6150 DOESN'T WORK, IT TURNS OUT.

ARR

5 July 1:40
Setting APR Traps with 230010 in 4125 system (Permanent breaker channel 3)

Prigb

1525 5 Jul 69
core 3 not AW AY
core 3 again
then core D

ARR
11:00 5 July

Fixed MT Bit 11 - I think a connector was bad somewhere, probably on 6205 for Bit 11.

Fixed intermittent wire in on fan in CP bay 1.

RAS xSRRI

230 6 July

Column 3 on printer does not print properly.

Karl

10:15 7 July

TTY 2 making a loud hunking sound. It appears to be coming from the back left corner.

Karl

1:30 7 July

Just talked to DEC about LPT 1.

I took it apart last night (Hammer Bank) and found that column 3 hammer broke its rebound spring, no way I can fix it.

Moved bad hammer to column 115 to be less annoying and DEC will send new hammer next week.

Karl
11:30 7 July

Looked at TTY2 and I'm not sure

What's wrong - it sounds real bad -

A rough, grating noise. Not sure from where.

Will let Jesse take care of it.

P.S. I think Hill will be here tomorrow morning.

July 8 1961

Completed preventive maintenance on all Model 33 teletypes.

TTY# Ser. 33739, change main shaft, bearing, and selector gear.

TTY2 Ser. 34467, change main shaft and bearing, motor shock mounts, clamp rings, bad.

Insert shock shims.

Jesse Gonzales

10:45 10 July

DTA3 is for loose

Randy

1445 10 July 67

Sys. was down for three hours today.

Some random core parity error.

Low into bit for 54 min and had 3 error

None of which were repeatable.

Also ran core check.

No error with margins.

Randy
15:00 10 July

There is a new switch in CPA Bay 1

to run PDP-10 / PDP-6

It switches uuo traps around. I.e.,
PDP-6 pos. traps all uuos to sys.
PDP-10 " is funny

Use PDP-6 pos. to run T.S. MAIN/1

Auto C/C

Randy

14:45 10 Jul 67

Mag tape stuff is marginal about
recognizing beginning of tape. Trouble
appears to be load point detector
lamp A #428. It is very black.

RR

11 Jul 67 - TTY 3 making pillows.

12 Jul 67 - TTY 4 sometimes sounds like N

Sys 12 Jun 67

Mag tape now has a new LP lamp. Its not
just a 428 its a (CM8-428) mini flange base T13/4
Be sure to turn unit off first as
there is 37 VDC bias on photo sensors

Randy
12 July 67  8:45 PM
adjusted deck-pot on #3 teletype
checked #4 appears OK

Jana Gonzales

13 July 67  1735  System died
Core 3 not AWRQ

14 July 67  1130
Core 3 not AWRQ twice
TTY scanner hung each time

Karl

14 July 67  1210
TTY 7 won't space

RR
14 Jul. 1967

Printer fails to print Χ's

See printout

J.R. Horton

16 Jul 1967

Ribbons on printer stopped during printing (printing continued ⇒ help in ribbon). Started again after jiggling ribbon handle on right.

17 Jul 1967

Bug in LPT has been found but not fixed

H.S.O.S in E7 has a bad set of comp E.F. in output stage. This O.S. standardizes & blesses DEC → Angelix $\rightarrow \square\square$

And stores data in, but it looks like: $\text{xxxx}$

No parts to fix, need 2X404 × 2N1609

17 July 67 LPT prints wrong in 47th column. Manford

17 July 67 14:05

cal 15 A for E

17 0 for ()

J.R. Horton
15-JULY-67  1320

Tried MIT's suggestion of replacing
the 4151 in CPA 2M23 with a 6151.
This seems to have fixed the overflow
problem - neither my diagnostic or PINGLE's
program complain any more. If anyone
notices any suspicious APR AROV traps please
dig them.

J. Sauter and J. Russell

7/15/67

Case 2  AWRQ + P2 Acton

7/16/67 - 3:15

The ribbon tension is too great.
Sometimes the ribbon doesn't move. The
nice new ribbon in the printer has been
in it.

19.00  16 Jul 67

Adjusted a ribbon tension
JULY 15

TTY S loosos on KUBOT!!

TTY 4 loosos on most characters !!

Fix these god damned teletypes !!

10/20 15 Jul 67

Many parity errors

Emergency Maint Declared

Run BLT

Parity box margins

-15 A > ± 2.5 > ± 5
B = ± 8, + 4 ± 5
C = ± 4, ± 4 ± 5
D > ± 4, ± 4 > ± 5

BLT ran for 1:30 only failure

was dropped left 1/2 wd in 34.575 (underlined)

De underlined menos

Got 1 dropped 1 1/2 word at loc 55177

Core 1.
Run for 40 min. and put system back at 1300.

Damping didn't help or hinder.

Relevant margins in a 163 for 1/2 word failures are:

<table>
<thead>
<tr>
<th>SA</th>
<th>STRF</th>
</tr>
</thead>
<tbody>
<tr>
<td>166F</td>
<td>1BC</td>
</tr>
<tr>
<td>1996, 1997</td>
<td>1M</td>
</tr>
<tr>
<td>1997</td>
<td>1L</td>
</tr>
<tr>
<td>64361</td>
<td>2L</td>
</tr>
<tr>
<td></td>
<td>1M, 1L</td>
</tr>
<tr>
<td></td>
<td>1M, 1L</td>
</tr>
</tbody>
</table>

Russell

10:00 July 19-1967

This print doesn't work. Will not print. Problem appears to be in printer, not in interface. It seems that the print level "Load Cycle" is not on and should be.

R. [Signature]
July 19-67

TV42 - Control by stick

19 Jul 67

Emptied clutch bucket off lot. Nobody else has.

19 Jul 67

Adjusted delay all to 3 usec in DEC LPT Interface. It was set at 10 usec which is too short for the data to be strobed into Analog Buffer.

C/R, C/F combination causes (-) print stroke F/F. To remain set which kills the timing chain for all other functions including buffer available pulse.

Lou.

1815 26 Jul 67

TV camera gives many data missed for I. Sobel. Perhaps delays have shifted if help wanted, call me at home 326-1390.

I suspect delays have drifted with temp.
July 22, 1967 2:08

Line printer is fixed.

July 22, 1967 15:15

Line printer unfixed.

Software not hardware.

J.R. Hatcher.

Drops Bit 5
in Col 97
among other evils.

This is probably an supervisor
hacked after all.

July 22, 1967

Core 3 crashes out with
AWRQ = 0

can't read TV camera.
7/24 1200: Same core 3 bug, but quite infrequent for my prog.

7/24/67
Adjusted -18V to -20V in LPT. This fixes marginal memory. LOU

7/25 Core 3 / Look-ahead bug

Back with a vengeance - 6063 "nail" req. every few lines. Came on very suddenly. Now appears only in reading wide lines (full-screen). Leaves microscan alone in small-block mode.

Sometimes encountered parities in unloading core 3 - my fault.
Pulled LA out by roots. (Laactive removed @ TBT)

25 Jul 67 2010

Left leg of ITY 2 is failing. Bill Wichman & I suggest replacing the losing Tinnerman nuts with honest nuts & lock washers.

WP
7/25/67
TTY2: INCREASING INCIDENCE OF NOXIOUS CHARACTER TRADING, e.g., @ FOR A, F FOR G, ... with

7/26/67
TTY2 Unreliable

7/26/67
LPT - INSTALLED MAIN DRIVE MOTOR NO PROB

7/27/67
Dec Scope overheat and SHUT OF CLOAS FILTERS, cleaning & Fx TROB.

7/27 - TTY STILL LOSING THO NOT ALWAYS
TALK TTY5
BUSY?
TALKD TTY5
HULLO* ARE YOU STAYING
TTTXY5 ALREADY ATTACHED
YES, IS THIS BILL PITTS?
NO, BILL W. PITTS ROUND ABOUT SOMEWHERE, BUT HASN'T SHOWN UP
TO CLAIM HIS CORE.
WELL, WE ARRANGED THAT I WAS GOING TO USE PART OF IT. IF THAT
IS NOT KOSHER I WILL QUIT IN ABOUT 10 MIN. OK?
I GUESS IT'S KOSHER. I'LL SHUT UP.
TC

CORE PARITY ERROR, LOCATION 000000047747 OPNID = 7757774123
PC = 7500000201775 INSTR = 202101000000
DATE = 00636507522 TIME = 2114:26

CORE PARITY ERROR, LOCATION 000000047747 OPNID = 00000027746
PC = 7500000201775 INSTR = 202101000000
DATE = 00636507530 TIME = 2120:32

CORE PARITY ERROR, LOCATION 000000047747 OPNID = 7757773313
PC = 7500000201775 INSTR = 202101000000
DATE = 00636507522 TIME = 2114:26

CORE PARITY ERROR, LOCATION 000000047747 OPNID = 00000027746
PC = 7500000201775 INSTR = 202101000000
DATE = 00636507530 TIME = 2122:25

SYSTEM REINITIALIZED AT 20:39, 25-JUL-67

CORE PARITY ERROR, LOCATION 000000047747 OPNID = 00000027746
PC = 7500000201775 INSTR = 202101000000
DATE = 00636507530 TIME = 2122:50

CC

A DTA4
ALREADY ASSIGNED TO JOB 3
?
ATT 3
TTY5 ALREADY ATTACHED

CC
CORE PARITY ERROR, LOCATION INDeterminate
PC = 254000004532 INSTR = 202200001061
DATE = 0006365077711 TIME = X730:37

ERROR IN JOB 0
NON EX MEM AT USER 11

SYSTEM RESTARTED AT 2330:00, 17-JUL-67

SYSTEM RESTARTED AT 2353:00, 17-JUL-67

. Dello, this is georgia. is bruce there?

Yes here.

Will I disturb you much if I use the 40K now?
Is it convenient to wait 10 min?
Yes, I would be glad to
Are you coming here for a meeting this A.M.?
Yes, about 10:30

OK I'll call you in abt 10 min. Tha nks.

Call me on the reg phone?
OK.
OK, bye

CORE PARITY ERROR, LOCATION 000000047747 OPND = 000000027746
PC = 750000021775 INSTR = 202101000000
DATE = 000636512124 TIME = 0914:33
CORE PARITY ERROR, LOCATION 000000141575  OPND = 000200063001
PC = 350000061460  INSTR = 254000001427
DATE = 000636512152  TIME = 0936:17

SYSTEM RESTARTED AT 0939:00, 18-JUL-67

CORE PARITY ERROR, LOCATION 000000174375  OPND = 000000000002
DATE = 000636512155  TIME = 0941:19

CORE PARITY ERROR, LOCATION 000000053747  OPND = 600001001071
PC = 350000027123  INSTR = 135440002424
DATE = 000636512174  TIME = 0955:53

I
?
.P
2
JOB 2
STANFORD 2.8/08

.K

3,1L
G
3,1L
G

P2535
I5318
M2443
S2249
ATT 3

LPT
ALREADY ASSIGNED TO JOB 1?

ATT 1
TTY7 ALREADY ATTACHED

SYSTEM REINITIALIZED AT 2359:00, 25-JUL-67

CORE PARITY ERROR, LOCATION 00000066115  OPND = 775777046123
PC = 75000023052  INSTR = 246040777773
DATE = 000636551005  TIME = 0000:47

CORE PARITY ERROR, LOCATION 00000066115  OPND = 775777046123
PC = 75000023052  INSTR = 246040777773
DATE = 000636551006  TIME = 0001:58

CORE PARITY ERROR, LOCATION 00000053715  OPND = 577777033716
PC = 35000021060  INSTR = 346540001134
DATE = 000636551013  TIME = 0007:02

CORE PARITY ERROR, LOCATION 00000066115  OPND = 375776046123
PC = 350000021417  INSTR = 322340001444
DATE = 000636551014  TIME = 0007:21

SYSTEM REINITIALIZED AT 0008:00, 26-JUL-67

CORE PARITY ERROR, LOCATION 00000074335  OPND = 777773054336
PC = 350000021432  INSTR = 322340001457
DATE = 000636551047  TIME = 0035:07

SYSTEM RESTARTED AT 0039:00, 26-JUL-67

ZZZZ
SYSTEM REINITIALIZED AT 0043:00, 26-JUL-67

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 750000000002 INSTR = 550640000013
DATE = 000636551110 TIME = 0103:26

CORE PARITY ERROR, LOCATION 00000066175 OPND = 010252046204
PC = 75000022730 INSTR = 246040777773
DATE = 000636551130 TIME = 0120:22

CORE PARITY ERROR, LOCATION 00000070515 OPND = 050512050511
PC = 75000025265 INSTR = 322200005305
DATE = 000636551177 TIME = 0158:28

SYSTEM RESTARTED AT 0203:00, 26-JUL-67

SYSTEM RESTARTED AT 0710:00, 26-JUL-67

SYSTEM REINITIALIZED AT 0713:00, 26-JUL-67

SYSTEM RESTARTED AT 0729:00, 26-JUL-67

CORE PARITY ERROR, LOCATION 00000057515 OPND = 777757000010
PC = 35000022622 INSTR = 344040001473
DATE = 000636551766 TIME = 0750:11

OK CORE LEFT

SYSTEM RESTARTED AT 0900:00, 26-JUL-67
CORE PARITY ERROR, LOCATION 00000066115  OPND = 375776046123
PC = 750000023052  INSTR = 246040777773
DATE = 000636552107  TIME = 0902:27

CORE PARITY ERROR, LOCATION 00000066115  OPND = 375776046123
PC = 750000023052  INSTR = 246040777773
DATE = 000636552120  TIME = 0911:30

CORE PARITY ERROR, LOCATION 00000066115  OPND = 375776046123
PC = 750000023052  INSTR = 246040777773
DATE = 000636552122  TIME = 0913:54

CORE PARITY ERROR, LOCATION 00000066115  OPND = 775777046123
PC = 750000023052  INSTR = 246040777773
DATE = 000636552126  TIME = 0917:31
28 JULY 67  2245

mag tape seems to not work. The controller will not select any of the units 0-7.

John Sauter

29 July 67  7:20
Same remark as before. PJV

29 July 67  8:30

We reloaded the system and used DDT to read Mag tape. It worked!!!

So I suspect it may be a system bug. Further even the Dec tape reading pattern (locating and reading) seems to be funny. Has J. Sauter or any body else modified the tape code recently?

Raj Reddy
TTY2 STILL TAKES GAS, AS WE'VE INTIMATED FOR THE LAST 5 OR 6 DAYS. NOW SOLIDLY TRADES Q FOR R FOR B, ... AZ FOR CF. IS OUR READERSHIP THAT NEGLIGENT?

WITH
SYSTEM REINITIALIZED AT 0819:00, 29-JUL-67

CORE PARITY ERROR, LOCATION 000000154051  OPND = 340000004267
PC = 740000004267  INSTR = 402000000001
DATE = 000636566131  TIME = 0921:32

27K CORE LEFT
?

CORE PARITY ERROR, LOCATION 000000053747  OPND = 000000027746
PC = 750000025775  INSTR = 202101000000
DATE = 000636567366  TIME = 1950:40

CORE PARITY ERROR, LOCATION 000000053747  OPND = 000000027746
PC = 750000025775  INSTR = 202101000000
DATE = 000636567375  TIME = 1957:18

CORE PARITY ERROR, LOCATION 000000053747  OPND = 000000027746
PC = 750000025775  INSTR = 202101000000
DATE = 000636567377  TIME = 1958:59
30 - JUL - 67

Mag tape 'select' light is burned out. There is only one thing worse than boxes without lights on them: boxes with lights that lie!

John Sauter

31 - July - 67

Trouble with reading-writing head deutepe drive 3 reading error and apparent writing error.

Impossible to deassign a device when it is assigned any mean of TTY (line 0) this for display and magnetic tape.

31 July

TTY garbling occasional character

PSV
31 July 2:00

Look ahead still hacking. When trying to read very large blocks (most of the screen) the TV starts to miss and shortly the system dies with the non-ex mem flag on. Stop - attempted gives the following:

**NON EX MEM AT EXEC 730;**

**UWO AT EXEC 12377**

Prelle

31 - July - 1967 1900

TTY 7 3 0 to 1 st order

TTY 4 3 0 to 1 st order

B. R. Tennent

31 July 67

New Hamme in LPT NO TROB. INSTALLING

Randby

31 MTA has all new lights (CM-330) Randby
0900 2 Aug 67

Emergency Maint Declared for DecTape + Core

Ran DecTape Test.

Claimed 35 ms Delay was set to 37.7 ms

Adjusted Delay to 35 ms

Ran EXDATA on Unit 3

Found that turning TTY 3

or TTY 6 off and on makes

DecTape Parity Errors

Found turning TTY 3 off makes a big transient on the DecTape head lines. So does waiting...

Checked DecTape Cables for resistance. All head conductors are relatively high (~0.5 Ω). Shields are lower. Seems OK.

Line transient pickup is still good.

TTY turn on & turn off makes .5 V transients between CP and IO controllers

Stopped changing chasing at 11:45 to work on core...
Modified Cores 0, 1, 12 to agree with Core 3 Look Ahead Mod

The pulse MRS is no longer used.

Tested TV camera with look ahead and changed look-ahead timing slightly.

Operated TV camera Display and users in System for 45 min with no error.

Tightened Drive Belt for Print Roller on Printer.

When the 167 Test Job was stopped the following happened:

Φ Act light on Core 1 is out.

Out of DDT

*K Get rid of job

This happened right after the (CR) without anyone hitting Start

φ & 2φ Loaders were wiped

19:45 Machine back to Losers

[Handwritten Signature]
Aug 2, 1967

Cleaned distributor brushes and #1 contact
Kydol adjusted and cleaned Kydol contacts
Machine Ser. # 34467 Changed main shaft
and bearings Ser. # 53384

Jesse Ingals

Aug 3, 1967
7:50

Vacuum motor in Mag tape appears to have eaten another
pair of brushes. Hurray for the
Mag tape.

P. R.

Aug 3, 9:00

Spacewar buttons seem to be sticking.

8-3-11:00

One Spacewar box has new buttons

Let me know how they work?

Randy
Aug 3  15:00

Computer hanging up repeatedly with dead ITY scanner.

8-3-67

MTY now has a new vacuum motor installed.

The old one was no longer repairable!!
It ate up its mounting gasket (lots of sponge rubbed) maybe that's why brush life was so short.

+ New drive belt

There is a box of parts for it in black cabinet in comp room.
Spare brushes, lamps, etc.

Randy
Box 1 is not so good!

SYSTEM REINITIALIZED AT 2004:00, 03-AUG-67

SNtC

CORE PARITY ERROR, LOCATION 000000022021 OPND = 000000000000
PC = 350000142313 INSTR = 540500000010
DATE = 000636617420 TIME = 2011:35

CORE PARITY ERROR, LOCATION 000000022045 OPND = 00000001476
PC = 350000142313 INSTR = 540500000010
DATE = 000636617420 TIME = 2011:52

CORE PARITY ERROR, LOCATION 000000162125 OPND = 000000550063
PC = 350000142313 INSTR = 540500000010
DATE = 000636617420 TIME = 2012:11

CORE PARITY ERROR, LOCATION 000000022001 OPND = 000000000000
PC = 350000142003 INSTR = 274240000000
DATE = 000636617423 TIME = 2014:56

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000142003 INSTR = 274240000000
DATE = 000636617423 TIME = 2015:11

Bill Pitts
23:00 8-3-67

Data 2 is out of alignment.
Tape does not feed properly.
B. P.

0600 8-4-67

TTY 7 printing quote(“) marks in a row of activities. Appear in print and random does not occur in every row.
B. R.

0900 4 Aug 67

DIA2 looks ok to me. IF more trouble please try to demonstrate to an expert.

HRR

1330 4 Aug 67

Replaced loose tapeupp reel on DIA3

HRR

0345

TTY > PRINTING SLASHES UNABLE TO LOAD PROGRAMS DUE TO INCORRECT NAME CAUSED BY SLASHES

B. R.
0535 8/5/67
Printer not printing correct characters
(i.e. A instead of P, V instead of H)
B. P.

1100 8/5/67
Printer Stale-light is temperamental.
It goes off by itself (perhaps the
vibration). This happened about 6 times this
morning.
Rey Reddy

11.50 8/5/67
Detector stage glued to Reading head -
Clean Reading head -
PJV

1430 8/5
BOX 2 NAV FLD
WHILE READING 1 word from TV -
COULD BE COINCIDENTAL -
Later

1230 8/5/67
Printer is getting worse.
Stop about every minute all by itself.
And sometimes is hard to start again.
A. P. Leary
1320 6 Aug 69

Increased -18 V supply to -20 V on printer in hope of reducing misprints. Printer slipping was paper low flashing due to not feeling paper through lower form tractors.

L.R.

1400 6 Aug 69

Scope in being somehow turned off (or if by come by).  Fixed 1142 (short across box) 79.

Grab from your box was not hooked on box which runs across front.

W.B.W.

2300 6 Aug 69

Ran BLT no errors

Ran room up to 80° for 30 min!

With BLT running, no errors.

Ran temp down

At 75° BLT hung up with NON EX MEM on DISABLE MEM was on BLT BLT was on a good. This
mystery is mysterious after finding no reason for this hang up, we proceeded
ran room temp down 41° to 69°
but ran chet for 15 min at 69°
no errors.

Conclusion: There are no errors! in memory?

MR & DMP

PS: we also tried turning teletypes on and off frequently, there were no problems.

SRR

with 1100 7 Aug 67

TTY 4 3 loses

"j" prints as "8" - g CR doesn't exist
"R" looks like "Control F" etc.

B. P
8/7/650

CORE 2 NW RED
P LAST NO PROC ACT,
NO SYNC RESTART

DATA CH: MC WR7 JOB DN,
MA = 71121, WC = 0

CPU MA = 4212 = PC
NON EX MEM

OCURRED WHILE READING 1-WORD
XFRS FROM TV, ALWAYS INTO BOX3.

ON RESTART GOT PARITY ERROR AT 1066

TV Buff = 111117

SAME AGAIN. DATA CH: MA = 131121

B.AUG. 1965

ABOVE BUG FIXED.

D. M. W.
07-AUG-67
2030
System died and could not be restarted. Deccump would not run. Traced problem to bit 9 of I/O line. Pulling module in 81 of kluge 136 made problem go away. As a result, scope, A-D, D-A and Petit Clock not operational until further notice.

John Lauter & RPG

07-AUG-67
2330
Above bug fixed. BAD R123 in GI interface.

D.W.P.

8/8 0830
Camera kluge gives 2 words for 1, 1 of which is always zero. Starting addr (tbuf) = 1111 (relocatable), or box 3.

Cryptically fixed by D.W.P.
1200 Aug 67

Tek Scope # 54 win & focus

230 Aug 67

Ran Debug Diag. on DTA 3

There were no errors

Installed 1033 Anten. in DTC
And placed 4523 modules
(See page 91 for details)

Re-running exdata with anten. in place

Seemed to cause consistent errors in block
# 361 came out as 1999361

More on above - the trouble with tape & bar
Seemed bad only on DTA 3

Ran fine on DTA 2 (same tape)
Maybe mook head cable on DTA 3 makes for
random errors?

Will look more on Thursday

P.S. Going to check Hub, tape, & reel springs
on all DTA's

Some Hubs seem to be back to fink
Allowing tape to slew on back lip of guides

Randy
8/8/67

Replaced two transistors in MB Register in Line Printer

Margin now -17 to -20 volts.

Note a half memory write current is 180mA
not 200 mA as suggested in books.

TTY 6 Sticks

Low

8/8/67 2130

TTY4 XMITTER BAD - SENDS
WRONG CHARS (e.g. "'", "'")

TTY5 SHIFT KEY DOESNT

WORK

TTY7 sends blank for 0, NC for C,
occasionally.

TTY6 keeps on left side stick - suspect
code spilled in work.

CTY, when cold, will print wrong first
char. (e.g. F for CR). XMITTER is OK.

John Sauter
8/9/67
TTY-6

All keys were cleaned and repaired.

Earl.

8/9/67
TTY-6 doubles characters, more so when warm.

BRT,

8/10/67
TTY-6

Repair and is in working condition.

Earl.

8/10/67

Core 1 parity error: repeated errors in location like 22, 23, 26, etc. Half-word dropping.

Maybe bit analyzer implicated token board at 1015, for about 10 mins.


Bug gone. BAD BAL UN BOARD!! Dope.
SYSTEM RESTARTED AT 06:15:00, 11-AUG-67

CORE PARITY ERROR, LOCATION 000000044747  OPND = 000000014746
PC = 75000031775  INSTR = 232110100000
DATE = 00065656315  TIME = 1045:32

LRL  not repeatable from switches.
DET SCPE SHE NO WORK.
TENDS TO DISPLAY SINGLE DIM
SPOT IN CENTER, OR NEAR GARBAGE
IN SPOT. NO TIME TO TROUBLESHOOT.

8/11 1745

Replaced R107 at Z9
and R201 at Z1 in Scope
interface. Scope runs clock
OK. Did someone connect
+10 to -15?  

KRR & SGB

PS note confusion about
Racks Y + Z in Kluze
Day = 1. They are labeled
Y + Z on Scope DWGS
but K & L on the racks.
and perhaps some other DWGS

KRR

PPS Large (13 V) voltage readings
have been noted on Bits 15, 16, & 26
caim to scope. KRR
Aug 11, 67 Returned TTY 7 Ser # 34467 overhaul.
Taking TTY 4 Ser. # 53384 and TTY 5 Ser. # 53385 for overhaul.

Jesse Foylds

CORE PARITY ERROR, LOCATION 000000053743 OPND = 000000000000
PC = 350000634324 INSTR = 20204303725
DATE = 000636661226 TIME = 0201:28

13-Aug 67 23:00
DTAS 5 is sticking.
Will not move tape without manual assistance (sometimes)

B. P.
CORE PARITY ERROR, LOCATION 000000154175 OPND = 000000000000
DATE = 000636667065 TIME = 1644:06

*RNLN*
*E
.REDIT 8
<SG,COMP
*X

CORE PARITY ERROR, LOCATION 000000154175 OPND = 000000000000
DATE = 000636667065 TIME = 1649:37

*RNLN*
*IC
.*X

CORE PARITY ERROR, LOCATION 000000173575 OPND = 010400603645
PC = 350000160461 INSTR = 202200013522
DATE = 000636667231 TIME = 1821:24

SYSTEM RESTARTED AT 1822:00, 13-AUG-67

ATT 1
ATT 2
ATT 3
ATT 4
ATT 5
ATT 6
TTY5 ALREADY ATTACHED
TTY3 ALREADY ATTACHED
TTY7 ALREADY ATTACHED
TTY1 ALREADY ATTACHED
TTY4 ALREADY ATTACHED
TTY2 ALREADY ATTACHED

JOB NEVER WAS INITIATED
Magnetic Tapes seem to be getting worse. If we can't read tapes that were created in May-Jun.

There are two possible explanations:

1. Tape did have errors. They have lost the reform bits!
2. The portioning of mag tape seems to be out of adjustment.

The latter seems more likely.

Raj Reddy
8-16-67 Returned for Overhaul

8-16-67
Bull Top of the form at the view of the printer
burned

P. J. Kiermaier

18 Aug 67

3200 TV Camera got too hot from lights heating
down on it. Got horizontal bars every 6 lines
or so. Also trouble at 2.5-3 kHz/sec
in camera H.V. power supply getting out
on TV Camera +650

LDR

1210 18 Aug 67

Ran BITST for 42 min in 30K
No reported errors.

LDR

SYSTEM RESTARTED AT 2047:00, 17-AUG-67

C
5K CORE LEFT
?

CORE PARITY ERROR, LOCATION 0000000052747 OPND = 000000000000
PC = 7500000000006 INSTR = 5055407777740
DATE = 000636711125 TIME = 0116:02

CORE PARITY ERROR, LOCATION 0000000052747 OPND = 000000000000
PC = 7500000000006 INSTR = 5055407777740
DATE = 000636711125 TIME = 0116:31
OK CORE LEFT

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 35000122077  INSTR = 200100000001
DATE = 000636703366  TIME = 1949:54

1245  18 Aug

Run BLIST 16 min in 10K
MTA0 ASSIGNED
JOB 4
STANFORD 2.8/09

RUN
0.00
0.00

DA
18-AUG-67
1213:51:77

RUN DTA1 MACTST

OUTPUT DEVICE DATA ERROR 0 HOURS AND 5 MINUTES
OUTPUT DEVICE DATA ERROR 0 HOURS AND 5 MINUTES
OUTPUT DEVICE DATA ERROR 0 HOURS AND 5 MINUTES
OUTPUT DEVICE ERROR 0
OUTPUT DEVICE DATA ERROR 3
COMPARED DATA NOT EQUAL 0
INPUT DEVICE ERROR 0
INPUT DEVICE DATA ERROR 0

ERROR IN JOB 4
HUNG DEVICE MTA0: UUO AT USER 253

3K CORE LEFT
8/19/67
Top of form light out on back panel of line printer.

8/22/67
Who killed the paper stacker?
AEM.

8/22/67
Super-8 transformer design automatic paper stacker appears to be slightly undersized. Call it outside consultant?

8/22/67
Returned TTX-0
Sew # 53385 overhead

2245 8/22/67
False fire alarm,
resulting in power failure
on computer,
230v power back on. Machine runs,
system runs, but some parity errors.
2400 --

VARIETY ERRORS WORSE.
SYS. RELOADED.

D. M.H.

0110 -- 23 AUGUST

ANOTHER FIRE ALARM COM POWER DROPPING ON COMPUTER.
ALL MEM'S PERMANENT NON-EX.

D. M.H.

P.S. FIRE ALARM MAN HERE, BLAMES LOSING SMOKE DETECTOR (HO, HO).

0145 23 AUGUST
RED PILOT ON 167 POWER PANEL IS OUT, REMOTE POWER ON ON 567

[Redacted]
4:20  8/23/67

Power down knocked out 24 hour clock on wall. Please reset if you can find a ladder.

B R.

4:00

6/23/67 CTY TAB NO ECHOED OR RECEIVED (E.G. FROM TEXT FILE)

J A.

1030  23 Aug 67

REPLACED LAMP ON REAR PRINTER START BUTTON HRR

1120  8-23-67

1. Petit clock needs reset
2. TTY2 gives 2 as line feed sometime K as 0

3. Scope hangs up again

Try R-CLK. scope runs for a while and then dies. System in wait for 136.

O.W. Weiner
ADJUSTED STOP TIMES ON ALL DECTAPES
TIGHTENED HUG SPRING ON DECTAPES
RUN 1 hr 34 min OF 22K BLTST
RUN MAG TST FOR ABOUT 1 hr 30 min
ERRORS:

COMPIRED DATA NOT EQUAL 6 HOURS AND 18 MINUTES
3017177222670 175207420026
137001072720 274074531457
217377216614 435734175203

INPUT DEVICE ERROR 0 HOURS AND 18 MINUTES

INPUT DEVICE ERROR 0 HOURS AND 18 MINUTES
542567231673 137362615241

OUTPUT DEVICE ERROR 0 HOURS AND 18 MINUTES

OUTPUT DEVICE ERROR 1

OUTPUT DEVICE DATA ERROR 0

COMPIRED DATA NOT EQUAL 6

INPUT DEVICE ERROR 2

INPUT DEVICE DATA ERROR 0

Set both computer room clocks

LRR

1250 23 Aug
TTY 2

PRINTS 0 FOR CR AND

Resides something like C WHEN

cOLD. I SUSPECT TIMING TROUBLES ON

TTY

LRR
1800 23-Aug-67
TTY2 both sends and receives wrong characters. "C" is the most consistent offender.

J. Lauter

Black inc pen for plotter would be desirable,
(More exist already) M. Heichel

600 24-Aug-67
TTY5 did not respond to 'rubout' when using editz. Also, not printing correct character for key struck (ie 'M' produced when 'S' key struck).

Missprinting not consistent, random. A '5' key struck also produced an equal sign (=).

J. Ce.

8-25-67 Took \
Machine [redacted] for overhaul.

Checked and cleaned hybrid contacts Machine [redacted]

Ken Gonzalez

CORE PARITY ERROR, LOCATION 000000127633 OPND = 476404041210
PC = 340000012656 INSTR = 254520000514
DATE = 000636751127 TIME = 0119:01

SYSTEM REINITIALIZED AT 0120:00, 26-AUG-67
1301 26 Aug 67

Raw 46 K of Burst for 3 hrs 15 min
No errors reported

1300 26 Aug 67 (OUT OF TEMPORAL ORDER)

Investigated DeCtape Noise Sensitivity

Found that Transients from turning Teletypes on and off were indeed making 30 mv spikes on the timing track lines. These spikes also make spurious timing pulse output as expected.

Investigation of Teletypes circuit shows with no suppression of inductive surges when breaking 110 vac line.

I suggest the installation of .01mfd, 600v Mylar caps across line switch of all tty's. The noise pickup on Dectape Head lines is present on at least 2 of the data tracks also. The noise picked up is reduced very little by unplugging control and head lines at the between the first and second dual units.
15:15 28 AUG 67

TTY 6 - GIVES WAVY LINES.  LOOKS LIKE THE CATCH ON THE PLATTEN IS NOT ADJUSTED PROPERLY

MRR

28/AUG-67 - 0.9:00 (21:00)

CAMERA (ON ASSOCIATED KLUDGE)

DIED WHILE USING MICROSCAN

- NOTE: PRIOR TO FAILURE

- WAS RECEIVING MESSAGES

TO TO UNASSIGNED CHANNEL

AND 4 PARITY ERRORS -

2 READ RESTART AT 14:50 -

FAILURE WAS ABRUPT - MONITOR SCREEN WENT WHITE THEN BLACK - SUBSTITUTED DIFFERENT MONITOR - STILL NO PICTURE

J.E.A.
CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 340000004506 INSTR = 402000001134
DATE = 000636763457 TIME = 2043:21

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 340000004506 INSTR = 402000001134
DATE = 000636763460 TIME = 2044:04

CORE PARITY ERROR, LOCATION 000000026537 OPND = 775777006540
PC = 750000023775 INSTR = 342340004074
DATE = 000636763461 TIME = 2044:40

CORE PARITY ERROR, LOCATION 000000066011 OPND = 051652000000
PC = 750000023261 INSTR = 550102000000
DATE = 000636763473 TIME = 2054:55

CORE PARITY ERROR, LOCATION 000000126025 OPND = 052101052026
PC = 750000150010 INSTR = 261600000002
DATE = 000636763764 TIME = 2348:30

29th August 1967 0053

All OTA brakes need adjustment.
picularily OTA2 & OTA4

ERT
29 Aug
10:00

Memory Hung. Core 2 not AWAY.
Non Erasable Clock.

---

**CORE PARITY ERROR, LOCATION 000000126025 OPND = 034662041533**
**PC = 7500000074730 INSTR = 246040777773**
**DATE = 000636766213 TIME = 1005:36**

---

**SAMSUNG**

**CORE PARITY ERROR, LOCATION INDETERMINATE**
**PC = 3500000000007 INSTR = 367040000007**
**DATE = 000636766330 TIME = 1119:14**

---

**CP WAS STOPPED WHEN POWER WAS TURNED OFF**

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1200 29 Aug 67

Looked at TV camera. Found:
1) Blown Fuse F2
2) Bent Pins on Power Supply Card
Possibly intermittently Open

Then Corrected Above and Ran
9-29 ran Mag Tape Test and failed on 55%6 Benset changed A6-081 for bkt 1 (read amp) and Problem was corrected. Do not have adjustment procedure for read amp but will check with Busse
Moons
WIMP

HOURS AND 0+C

2100 29 Aug 69

ARR MAG TAPE STILL LOSES IN SYSTEM

OUTPUT DEVICE DATA ERROR 0 HOURS AND 1 MINUTES
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OUTPUT DEVICE ERROR 0 K+C

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8-29-67 Returned Ty #5 See #37780 overhauled took Ty #3 for overhauled, adjusted keyboard reset lead lever on Ty #8

8-300 29 Aug 69

MI BIT 11 in OUT Lamp is OK Socket is BENT.

1845 30 Aug 69

DIAG giving "DEVICE INPUT ERROR" when used as source in MACROX switch Xpts + won. suspect the drive.

1940 30 Aug 69

<table>
<thead>
<tr>
<th>OUTPUT DEVICE DATA ERROR</th>
<th>1 HOURS AND 1 MINUTES</th>
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<tbody>
<tr>
<td>COMPARED DATA NOT EQUAL</td>
<td>1 HOURS AND 18 MINUTES</td>
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<tr>
<td>705244360572</td>
<td>325206125227</td>
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<td>730010651775</td>
<td>500075763557</td>
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<td>313762525270</td>
<td>37742044343</td>
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<td>OUTPUT DEVICE ERROR</td>
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<td>OUTPUT DEVICE DATA ERROR</td>
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<td>COMPARED DATA NOT EQUAL</td>
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<td>INPUT DEVICE ERROR</td>
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<td>INPUT DEVICE DATA ERROR</td>
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MAG TAPE LOSES LESS TODAY IN SYSTEM LRR
1947  30-Aug-67

Big Green Monster air conditioner started making ominous scraping noises as if turbine was rubbing against something. Noises stopped shortly thereafter without any help. SoB.

0337  31-Aug-67

PTY5 dropping random CR's BRT

PTY5 0337  31-Aug-67
0345  31-AUG-67
MI bit II doesn't work.

J. Sauter

0100  MTAP0 OK for 3hrs.

0830  After turning on again MTAP doesn't work

1967 Aug 31  0900  Began relocating computer.
1030  Power down
1920  Power up. System did not run on 140 resident; may be clattered. If I-O bus connections are good, we should be operable.

J. Sauter

31-AUG-67  2215

2230 Started system. 630 appears sick. Also LPT

J. Sauter

0100  Sept 1, 67

Power down so that machine won't overheat on account of all the holes in the floor. B.P.
SYSTEM RESTARTED AT 0301:00, 31-AUG-67

SYSTEM REINITIALIZED AT 0332:00, 31-AUG-67

SYSTEM REINITIALIZED AT 0333:00, 31-AUG-67

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   JOB 1
   STANFORD 2-8/09

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0345 31-AUG-67
MI dit 11 doesn't work.

J. Sauter

0100 MTAQ ok for 3 hrs.

0830 After turning on again MTAQ doesn't work

1967 Aug 31 0900 Began relocating computers.
1230 Power down.
1920 Power up. System did not run on 140 restart; may be cluttered. If I-O bus connections are good, we should be operable.

JAS.

31-AUG-67 2215

Rick. Started system. 630 appears

Also LPT.

J. Sauter

0100 Sept 1, 67

Power down so that machine won't overheat on account of all the holes in the floor. B.P.
1 Sept 1 PM

Power ups with new wiring. TTY1 and TTY2 are not being listened to. I am fairly certain they were reconnected properly.

Pugl

1 Sept 2 PM

LPT is spacing, about 10 lines after each line. wonder if you can change computer. Pugl

14:30. New outlets checked, all O.K.
TTY problem is in the 630, whose lines 0, 1, 2 are down.

VAS.

FIXED: Switches on TTY receive boards were knocked to off poor while moving.

03:10 2nd Sept '67

TTY Ø duplicates character on occasion, particularly when typing fast.
TTY ran for 23 hours, no noticeable trouble.

BLT.
2028 2ms Sept 67

MTA Loses heavily today

23K core left

RUN F: MAGIST

INPUT DEVICE DATA ERROR 65498251525

2-Sep-67
1959:43:42
OUTPUT DEVICE DATA ERROR 0 HOURS AND 1 MINUTES
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206507566170 561522751254

INPUT DEVICE DATA ERROR 65498251525

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2-SEP-67
1959:43.42
COMPARED DATA NOT EQUAL 0 HOURS AND 7 MINUTES
206307566170 561523751254
72034549560 465407465502
330754101774 522174403341

OUTPUT DEVICE ERROR 0 HOURS AND 10 MINUTES

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COMPARED DATA NOT EQUAL 0 HOURS AND 10 MINUTES
470046046711 113232427213
133715630626 621053122565
211725635757 246302372774

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SYSTEM RESTARTED AT 1903:00, 02-SEP-67
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TC
*DA
2-SEP-67
1959:43:42
OUTPUT DEVICE DATA ERROR 0 HOURS AND 3 MINUTES

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COMPAIRED DATA NOT EQUAL 0 HOURS AND 6 MINUTES
742432617475 34364414270
354153206230 355560107120
145642010140 144466751114

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SYSTEM REINITIALIZED AT 1922:00, 02-SEP-67

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1922:17.07

*G DTA4:MAGTST
JOB 3
STANFORD 2.8/09
JOB SETUP
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COMPARED DATA NOT EQUAL 65498251659
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*DA
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1959:43:42
3 SEPT. 0200

TTY7 GIVES "M" FOR CARRIAGE RETURN.

D. W. P.

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000000007 INSTR = 367040000007
DATE = 000637013571 TIME = 2153:08

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000000007 INSTR = 367040000007
DATE = 000637013613 TIME = 2206:49

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000000007 INSTR = 367040000007
DATE = 000637015070 TIME = 0052:25

CORE PARITY ERROR, LOCATION 000000163575 OPND = 100000000002
PC = 750000163576 INSTR = 306000000015
DATE = 000637016563 TIME = 1347:30
RUN LTS: MAGTST

3rd Sept 67 1628

No comment

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OUTPUT DEVICE DATA ERROR 0 HOURS AND 9 MINUTES

OUTPUT DEVICE DATA ERROR 0 HOURS AND 9 MINUTES

OUTPUT DEVICE DATA ERROR 0 +C

. K

.
1900 3 Lyr 67

Joint 4 of HYD ORM was leaking badly and suffering from a broken wire in pot lead.
I disconnected the HYD actuator for Joint 4.

*R

Core parity error, location indeterminate
PC = 350000000007 INSTR = 367000000007
DATE = 000637006641 TIME = 1429:11

X
?
*X

System restarted at 1458:00, 01-SEP-67

System restarted at 1508:00, 01-SEP-67

System restarted at 1511:00, 01-SEP-67

System restarted at 1512:00, 01-SEP-67

System restarted at 1538:00, 01-SEP-67
CORE PARITY ERROR, LOCATION 00000126021 OPND = 777773035060
PC = 750000072730 INSTR = 24604077773
DATE = 000637013220 TIME = 1811:52

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000000007 INSTR = 367040000007
DATE = 000637007033 TIME = 1623:39

1K CORE LEFT
?

CORE PARITY ERROR, LOCATION 000000142733 OPND = 416010451000
PC = 750000105271 INSTR = 55414600000
DATE = 000637007770 TIME = 2352:18

SYSTEM RESTARTED AT 2353:00, 01-SEP-67
4 Sept 1967

TV does not work. Read line 167 in funny way but no error detected yet. Suspect hardware stepped in middle of error string went into 167.

4 Sept 67 1600

MI bit 2 doesn't work. The machine is slowly going to pieces.

John Hunter

4 Sept 1967 1800

I think it's going pretty fast.

BRT
4 Sept 67 21:15

1090 written BCD tape -> ASCII conversion using MTA failed badly

ACU.

10:30 4 Sept 67

ML Bit 2 light replaced with the high order bit from the memory address of Fast Memory. So now high order bit in Fast Mem needs replacement.

B. R.

0245 5 SEP 67

DATAI TO TOP does not get bits 0-5 (they come back as zeros always).

John Smuts

0850 5 Sept.

Above bug fixed.

D. R.

0910 5 Sept

TTY 7 is send back channel

K. K. P.
SEPT
MAC TAPE PROBLEM 6081 RDR.

A Good MAS = 15 002100000000
For MAC TAPE TEST

Ready

1730 Sept 5
System Re Loaded

17 45 Sept 5
MTA will not shut off by front panel switch
Must use CRT Breakers

Ready

1855 5 Sep 69
Look ahead to box 0 was always on.
Found R201 in 167 S26 HAP
Maybe on pin L.
Also found no output at all
From pin P of B155 in S29
Camera appear to work

ARR
SYSTEM REINITIALIZED AT 1314:00, 05-SEP-67

SN
.C
4K CORE LEFT
?
.C 2
JOB 4
STANFORD 2.8/09
.A DTA
DTA1 ASSIGNED
.R LISTER 2
*S1, MACROX.MAC

SYSTEM RESTARTED AT 1450:00, 05-SEP-67

.R
.K

NO EOR FLAG AFTER WRITE ON UNIT 0

NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
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NO EOR FLAG AFTER WRITE ON UNIT 0

OPER: READ BKWDS
SR200: 004022 SR220: 400001
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG A
NO EOR FLAG AFTER WRITE ON
NO EOR FLAG AFTER W
NO EOR FLAG AFTER WRITE ON
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
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NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON
NO EOR FLAG AFTER WRITE ON UNIT 0
NO EOR FLAG AFTER WRITE ON UNIT 0
NO. WDS IN REC. SHORT BY 0116

OPER: WRITE

<table>
<thead>
<tr>
<th>REC #</th>
<th>LENGTH</th>
<th>ERRORS</th>
<th>PAR. DENS.</th>
<th>SLEV</th>
<th>UNIT#</th>
<th>PAR. ERRORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>00147</td>
<td>1024</td>
<td>N.A.</td>
<td>0</td>
<td>M</td>
<td>H</td>
<td>0</td>
</tr>
</tbody>
</table>

N.A.: Not Applicable
2102  5th September 1967

Plotter appears to wander and
plotting errors of the order of 2"
long; origin appears to move in
SW direction.

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000021755  INSTR = 263600000000
DATE = 000637027536  TIME = 2124:12

SYSTEM REINITIALIZED AT 2132:00, 05-SEP-67

CORE PARITY ERROR, LOCATION 000000047347  OPND = 000014027350
PC = 350000022171  INSTR = 346300002106
DATE = 000637027751  TIME = 2336:24

CORE PARITY ERROR, LOCATION INDETERMINATE
PC = 350000021773  INSTR = 263600000000
DATE = 000637027762  TIME = 2345:30
6-SEP-67 0600

Many "PARITY ERROR, LOCATION INDETERMINATE" s. Suspect memory bus.

J. Sauter

6-SEPT-67 0730

Somehow the process of getting a parity error seems to occasionally set PC CHANGE ENABLE with disastrous results to system. I installed appropriate jumper in CP D07 2 to disable it. Once it turned off clock enable. I suspect that there is some hardware marginality somewhere.

J. Sauter

6-SEPT-67 0815

It just got ACRV ENABLE. Installed another chip lead.

J. Sauter
6-SEPT-67 0845

Removed two clip leads. Discovered air conditioner was off. Turned it back on.

John Sauter

6-SEPT-67 0910

Map tape front controls work fine when switch in rear is set to "REMOTE".

J. Sauter

6-SEPT-67 0912

MI bit 11 doesn't light.

J. Sauter

6-SEPT-67 10:30

Checked Reader Alignment (545)

Al Roberts

6-SEPT-67 12:00

Checked COHU camera, still blowing F2 which is 24V Raw DC to Power Sup Card. No sign of short.

1 1/2 A fuse running I 819 Mills. Turn on 3X1 for 5 msec.

Should work but !!!!
Comera continue.
Looked at power cord and everything seems okay.
Used heat, nothing.

6 Sept 2043
Camera failed - fuse blew after 1 hr cont.

2251 6 SEP 67
DTA 4 won't read a tape.
DTA 1 will read the same tape.

7 Sept
1147 still not fixed.

7 Sept 67
mi bit 1142 have been fixed.
No thanks to people that randomly shake hands.
In and bend the contacts like this.

Bill Pitts
TTY 0 and TTY 6 repeat characters

M. F. Hareckel

9 Sept 7 TTY 7 Ser # 37780 Keyboard contact out of Tever Adjust TTY 3 & Ser # 53385 Keyboard return TTY Ser # 33939 taking TTY 7 Sept 7 82815

for overhaul

Gen Ponzekly

2200 7 Sept 67

MI BIT 11 DOESN'T LIGHT AGAIN!

STOP ON PARITY SWITCH DOESN'T

HRR

2330 9 Sept 67

Plotter feeds paper crooked

HRR

11 Sept 67

Plotter is okay, paper is wrong. Demention
10 Sept 67

THE MAG TAPE IS NOT WORKING (IN READING OR WRITING) - PJV

10-Sept-67

Returned machine #1 TTY set # 52515 installed where TTY #5 was and pickup #5 for overhaul

Jess Forgals

1000 11 Sep 67

167 writes parity errors with TV data, look ahead never happens also, LA never gets set, PAUSE seems never to reset.

LRR

1300 11 Sep 67

TTY 2 runs but does not turn work. Motor
TTY 1 shaft does not turn. not power.

LRR
11 Sept 67

MI Bit 11 will be re-wired on
on Wednesday
Driver Board seems bad

Randy

11 Sept 67

TTY1 had blown 3.4 fuse
For no apparent reason
New fuse fixed it.

Randy

TTY6 memos / M.H. Friedel

12 Sept 67

All filters have been replaced
in the PDP-6

Randy

12 Sept 67

Meg tape fails to read
Channel 1
replaced G2381
read amp for channel 1

[Signature]

9-12-67 21:08
TTY labeled TTY1 on TTY-5 on
patch panel

[Signature]
9-13-67

M1 Bit II has been looked at

and it's not camp dance card or

Cable that's at fault.

It's wired to E18s (MILH) [Bit II]

and the connector seems marginal

unless it stops again I'm not pulling

M9-AR -- etc boards to see why

Randy

5-13-67 13:40

TTY 7 dies at this time.

PJV

B3 Sep 67

TTY 7, print M for carriage

return, J for line feed, on local

or remote.

RR

9-13-67 adjust hybrid contact II. TTY #7

Delivered Machine (TTY) Ser # 30996

Shipped TTY 2, motor mount clamps to

stake mount bracket broken.

Replaced keypads and levers on all

TTYS, K, L, M.

Jesse Gonzales

17 Sep. 1200

CTY 1st KAPUT.

D. M. P.
| A | RED | +10 |
| C | BLK | -15 |
| D | GND |    |
| T | WH-SL | KBD | (TO +10) |
| V | WH-Y | PTR | (TO -15) | GND |

**MOD 35**

TERM STRIP

| RED | WH-SL | WH-Y | BLK |

**MOD 33**

TERM STRIP

| 3 | KBD - |
| 4 | KBD + |
| 5 | PTR - |
| 7 | PTR + |

<table>
<thead>
<tr>
<th>Console</th>
<th>680 Wires</th>
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<tbody>
<tr>
<td>WIRE</td>
<td>RED</td>
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<tr>
<td>WH-SL</td>
<td>RED</td>
</tr>
<tr>
<td>WH-Y</td>
<td>WH-Y</td>
</tr>
<tr>
<td>BLK</td>
<td>BLK</td>
</tr>
</tbody>
</table>

> Sl = Slate = Gray = GRY

Found confusion when substituting MOD 33 for MOD 35. Computer supplies only 6 mA on +5 on CTY line, shunted by translator 4707. MOD 35 puts about 6 V of line and translator happily shows that MOD 33 has no 6 V and so is marginal. Sometimes if the trouble is MOD 33 on console, don't pull TIE a 10k 1W resistor from Output of 4707 (626A1V) to -15 to supply 20 mA.
2100 17 Sep 67

Put mod 33 on as console TTY
REMOTE, LOCAL, POWER ON
lights on 545 do not light.

2045 18 Sep 67

Plugged in MEM Bus for Display Processor. Had to unplug and replug every memory bus cable and almost every 1664 and 1665.

0235 18 Sep 67

Going Home. Machine is DOWN
there are 2 problems:

a) id onto 19 and 21 are in anodeport
   bit 20 goes on between CP and parity box

b) bit 20 can't be written into
   core 2 or core 3

c) something in um the fan in core 2
   machine is de-interleaved, PDP-6
   mode
17 Sept. 67  1130

DP mem., bus (P3) refugated (?)

CP is now on P3!!

DP can go on P2.

Removed incorrect jumpers on 6227 ½ in all memories; they were making P2 LAST always true. DEC loses.

D. P. and P. P.

20 Sept. 67

Repair model 35 teletype line feed stripper wheel pin and spring off due to retaining ring breaking, worn buffer extension will replace 9-22-67. Ty will work now.

Jesse Brunato

21 Sept. 67  1700

EXAMINE with machine running apparently killed machine.

D. Poole
1800 21 Sep 67

Had several DECtape errors in system

EMERGENCY MAINT DECLARED at 1245

Found several tapes that tested bad. One was an old scratch tape. Another was a newer scratch tape. Rewriting block markers on this tape gave 2 errors only. Rewriting it again made the tape work. OK. Another was a new tape that had just been opened. Tried a new tape. OK tested OK.

Conclusion: (pick 1)

a. Merely by coincidence several bad tapes including one new one had a random error that went away.

b. There is an intermittent in the Dec tape controller that disappeared about 1602, but will return at some mutually embarrassing time.

I favor conclusion b.

Machine back at 1800

ARR
27 Sept 1900

TTY 7 substituting for many other characters notably alt mode.

Pursh

1000 22 Sep

Tested TTY tape. Found an old scratch tape that got random errors on drive 3.
Errors were reported by 5x DATA and consisted of dropping a 3-bit frame from the record. Location on tape moved around. Tried replacing the timing track reader and the PADS, in the timing chain. Also the mark track window decoders.
No change was found.
Tape worked fine on drive 7 which uses the newer decoder and is not worn as badly.

I suspect that the heads on drive 2 and 3 are worn excessively, causing these problems.

[Signature]

Evening meal on above firm 1200 to 1430

1910 22 Sep 69

TTY 2 receiver picks up bit to make 0 into Rubout.

Replacement has flag permanently on.

PE not red at 0 hour.
Sept 22 67
Returned TTY Set # 34466. Completed overhaul of all model 33 TYS. Replaced worn rocker shaft extension on model 35.

Jesse Fouque

0100 9-24-67

Green Monster is sick.
Relay sensor switch can't make up its mind.
Machine is now on fan only (no cooling)

B.P.

2:52 24 Sep 67
1) Replaced 4706 for TTY Line 2. It works.
2) Temperature was up to 95°. Turned on Green monster - it made loud noise. I removed the cover on the lower section and found the big motor control relay chattering. It stopped and wouldn't do it again.
3) Put mod 35 on console TTY and mod 33 on as TTY 2.

ARR.

24 Sept

LLC Cards in 167. Now have
- 10 VDC Supply + Sense Link Hooked-Up

[Handwritten Signature]