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                 Mauna Loa Solar Observatory Observer's Log
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        Tue Jun 27 19:35:09 GMT 2000
Year: 00  Doy: 179
Observer: yasukawa
WEATHER COMMENT: Tue Jun 27 19:36:14 GMT 2000
In orographic clouds this morning, currently socked in--fog.
**LOW-L PROBLEM**: Tue Jun 27 19:36:46 GMT 2000
Found LOWL crashed this morning, typical "graphics characterss across
gui screen"-type crash.  Apparently occurred yesterday, 6/26, at 22:33:11
with 36 files on tape.  Socked in most of yesterday.

Turned everything off and swapped flaky tape drive #1 with the
replacement drive I received yesterday before turning lowl back on.
Upon power-up, I got the following message on the screen in large
characters:

8042 GATE-A20 ERROR
SYSTEM HALTED

Powered down, checked connections and drive SCS1 settings and powered
back up and got same message.  Tried a reset from error message state.
Lowl program started up and got to its normal wait state.  Entered date
and time and typed "lowl" command.  Gui started up but after flashing
a bunch of data-acquisition messages, it stopped at

message:  tape init
tape 0:   test
error:    No tapes on line

it then went to

message:  tape init
tape 1:   test
error:    No tapes on line

Tried a couple more times after checking drive connections, etc.
and got the same results in both modes -- power down/up and just
reset.

Alerted Steve and Kim.
**LOW-L PROBLEM**: Tue Jun 27 20:23:47 GMT 2000
Tried removing the replacement exabyte drive and terminating drive 0.
Powered back up.  System came back up normally.  Powered back down and
reconnected replacement drive after a normal halt before powering down.
Boot and program start did not go to ERROR message on boot, but crashed
when gui went to tape init/test/No tape on line routine again.
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Powered down, unpacked flaky drive #1 that was ready for return to Tisone,
re-installed it in place of the failed replacement drive, and started
lowl back up with two drives. System started up OK.
Updated Steve and Kim on status.

We are currently back to running with only drive #0, with an unlabeled
tape in drive #1 as a backup.

L00724 was unloaded this morning and data (albeit in solid clouds at this
time) is being written to L00725.
LOW-L PROBLEM: Tue Jun 27 22:05:44 GMT 2000
David suggested trying "mt" commands to test the replacement drive.
Reconfigured lowl with replacement drive and tried mt commands.
To make a long story short, mt 1 <cmd> <arg> was unable to find any drive
1 connected, and mt 0 <cmd> <arg> failed as long as replacement
was connected in system. mt commands worked with both drives when
the old flaky drive was put back into system. I also tried running
with the replacement drive unterminated, David thought it might be
internally terminated and installing the terminator would double
terminate it. That was not the case.

System is back in our current configuration, L00726 restarted.
In fog all this time, so no data loss during testing.
COMMENT: Tue Jun 27 22:14:18 GMT 2000
Tapes:
No observations all day
LOWL: L00725
WEATHER COMMENT: Tue Jun 27 22:15:17 GMT 2000
In very dense fog, cannot see my hand when arm is extended.
Tue Jun 27 22:17:20 GMT 2000
        MkIV