

Swift Commands Log Page

Page application

Thu, Jul 11, 1996

The swift digitizer commands log for the IRM is implemented as a data stream. A 16-byte record is written into the data stream when a swift digitizer command is entered into the queue. This page application facilitates viewing the log. It is based strongly upon a similar page application that views settings log diagnostics, also written into a data stream for each setting performed by, or initiated from, the node.

Display layout

```
6 SWIFT DIG CMDS 07/11/96 1413
NODE<0576> #RCVD= 2 LIST<0576>
EVNT=00 - RATE= 0 TIME=0000
14 100 16384 4096 1303:18-13+56
12 200 1024 4096 1310:09-10+51
```

Fields listed above are the trigger clock event# in hex, the rate in KHz, the delay in μ s, #points, and the time of entry into the command queue. As in the settings log diagnostics, the time is expressed in hours, minutes, seconds, 15Hz cycles, and milliseconds within the current cycle.

In the example of node 0576 swift digitizer diagnostics shown,

Operation

Interrupt on the second row to initiate a one-shot data request in order to capture the most recent diagnostic records from data stream #2 from the node# between the "<" and ">". The number after RCVD shows the number of records received in response to that one-shot request. If the LIST field is nonzero, then send a serial listing of the same diagnostic records displayed to that indicated node#.

Interrupt on the third row to modify the filter parameters that select from the captured diagnostics above. Filtering can be done on the event#, on the rate, and on the time. (Obviously, only hours and minutes can be specified for the time filter.) Characters that denote the type of filtering for each filter are used where the "=" sign is indicated. Use "=" to mean equality, "!" to mean inequality, ">" to mean greater than or equal to, and "<" to mean less than. When a filter value field is 0000, that filter is disabled. If more than one filter is enabled, the "AND" of the filter conditions is meant.

When a list of diagnostic lines is displayed on the screen, use the raise/lower buttons to scroll by pages forwards or backwards through the list. Using a one-shot request suitable for a data stream of size 2K bytes, one can capture and display/list up to 124 swift digitizer diagnostic records.

Listing format

```
6 SWIFT DIG CMDS 07/11/96 1413
NODE<0576> #RCVD= 2 LIST<0576>
EVNT=00 - RATE= 0 TIME=0000
Ev Rate Delay #Pts HrMn:Sc-Cy+ms
14 100 16384 4096 1303:18-13+56
12 200 1024 4096 1310:09-10+51
```

This is an excerpt from the complete 124-line listing showing the same records displayed in the example above.