

SCSI TOOLBOX, LLC

External Program using DMM

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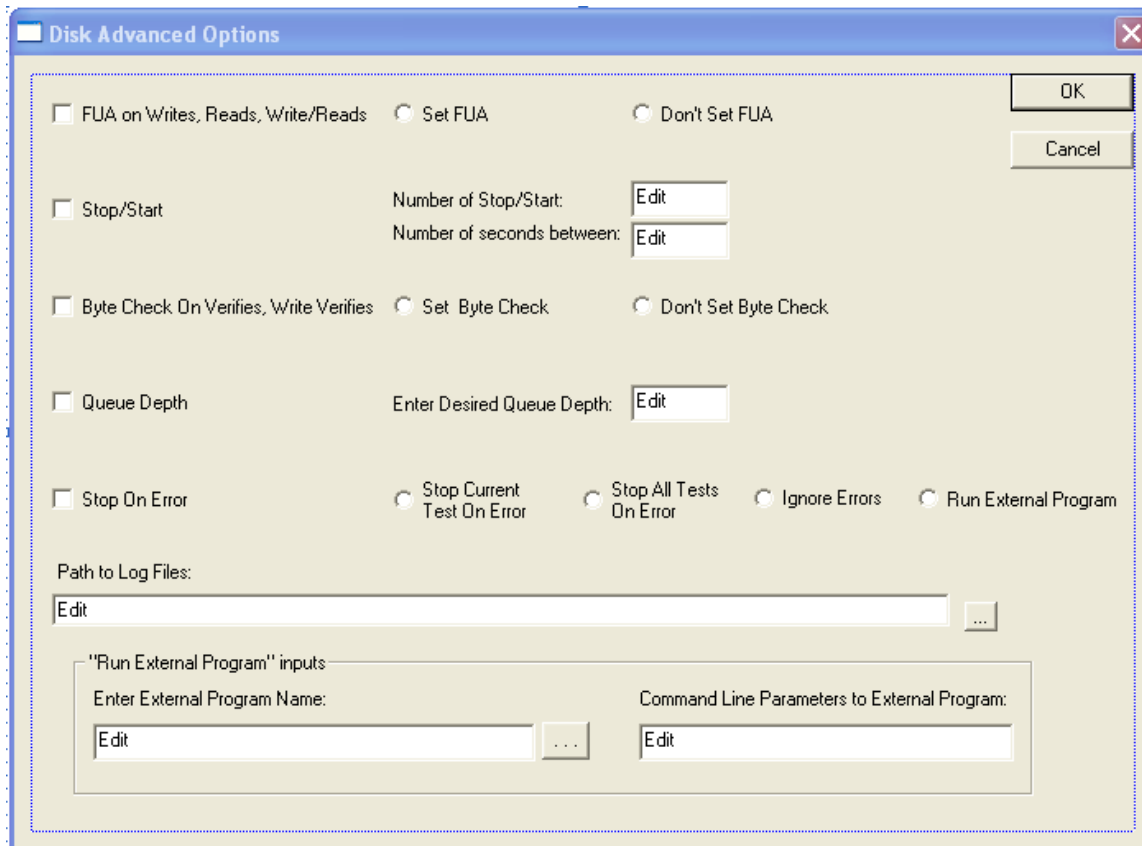
External Program in DMM

The External Program test type in DMM will contain the following additional features:

- Ability to pass command line parameters to the program
- Ability to retrieve the status of the program after it terminates
- Ability to receive an ASCII string from the program that will be logged to the DMM log file

Ability to pass command line parameters to the program:

The user will enter command line parameters on the Advanced Options dialog (pictured below):



Ability to retrieve the status of the program after it terminates:

Upon completion of the program, DMM will retrieve the exit code status of the program to determine the SUCCESS/FAILURE of the external program. This information will be logged to the DMM log file.

Ability to receive an ASCII string from the program that will be logged to the DMM log file:

After the external program has completed, DMM will retrieve, if available, an ASCII string from a system memory-mapped file. The external program, prior to exiting, must store the ASCII string into the system memory-mapped file so that DMM can retrieve it. The name of the memory mapped file will have the format "DMM_HBAⁿⁿTID^{xxx}LUN^{yy}" (for example DMM_HBA03TID007LUN00). The size of the data in the memory-mapped file will be no larger than 4K.

Stop On Error in DMM

DMM will have an additional "Stop On Error" option to run an external program. All information contained in Section 1 is applicable.

Asynchronous running of an external program

SCSIToolbox will have the capability to receive notification that it is to run an external program – the notification will be via the Windows message WM_COPYDATA. The message must be sent to the main window of SCSIToolbox (a handle to the main window can be found via the API FindWindow(NULL, "SCSI Toolbox32")). The string data SCSIToolbox will be expecting in the WM_COPYDATA message are:

- CODE=2
- ExtProg='name of external program to run'
- CmdLine='command line parameters'
- HBA=nn
- TID=xxx
- LUN=yy

As an example, the string data passed via WM_COPYDATA could be

CODE=2,ExtProg=MyFunction.exe,CmdLine=TestLBA17thru918,HBA=3,TID=5,LUN=0

As in Section 1, the return code from the external program will be logged to the DMM log file and if an ASCII string needs to also be logged, that string must be stored in the System Memory-Mapped file (and the name of this memory-mapped file will have the same format as outlined in Section 1)