To:T10 Technical CommitteeFrom:Steven Fairchild, HP (steve.fairchild@hp.com)Date:13 January 2003Subject:03-058r0 SAS SMP error codes

Related documents

sas-r03 - Serial Attached SCSI revision 3

Overview

The function specific portion of the FUNCTION RESULT codes currently use the same codes to represent different errors. To simplify the handling of errors in the SMP space it is desirable to change the FUNCTION RESULT codes to a non-overlapped list of codes and interpretations. The current codes are;

DISCOVER	10h PHY DOES NOT EXIST
REPORT PHY ERROR LOG	10h PHY DOES NOT EXIST
REPORT PHY SATA	10h PHY DOES NOT EXIST
	11h PHY DOES NOT SUPPORT SATA
	12h SATA RESET HALTED
	13h PHY NOT SATA
REPORT ROUTE INFORMATION	10h PHY DOES NOT EXIST
	11h INDEX DOES NOT EXIST
CONFIGURE ROUTE INFORMATION	10h PHY DOES NOT EXIST
	11h INDEX DOES NOT EXIST
PHY CONTROL	10h PHY DOES NOT EXIST
	11h PHY OPERATION FAILED
	12h UNKNOWN PHY OPERATION
	13h OTHER ERROR

The non-overlapped list would be;

10h - PHY DOES NOT EXIST 11h - INDEX DOES NOT EXIST 12h - PHY DOES NOT SUPPORT SATA 13h - PHY NOT SATA 14h - SATA RESET HALTED 15h - PHY OPERATION FAILED 16h - UNKNOWN PHY OPERATION 17h - GENERAL PHY CONTROL ERROR

Suggested changes to SAS

Change table 148 to:

"1112h PHY DOES NOT SUPPORT SATA" "1214h SATA RESET HALTED"

Change table 159 to:

"1115h PHY OPERATION FAILED" "1216h UNKNOWN PHY OPERATION" "1317h OTHERGENERAL PHY CONTROL ERROR"

Discussion

Should also consider adding a master SMP error list, like SCSI errors.