

% Decoder for enabling SCSI data and status registers

paltype pal1018
palname decode U121 520-1054
palid 1.3 84/03/02

PALBEGIN

% Inputs

1 INPUT cd
2 INPUT io
3 INPUT msg
4 INPUT secondbyte
5 INPUT rds-
6 INPUT wrd-
7 INPUT rdd-
8 INPUT wrd-
9 INPUT en.rst
10 GND
11 INPUT init-

% Outputs

20 VCC
19 OUTPUT cout-
18 OUTPUT sin-
17 OUTPUT dout.hi-
16 OUTPUT dout.lo-
15 OUTPUT din.hi-
14 OUTPUT din.lo-
13 OUTPUT regacc
12 OUTPUT reset-

EQUATIONS

ASSERT cout-
OR cd / io

ASSERT sin-
OR cd io

ASSERT dout.hi-
OR / cd / io / secondbyte

ASSERT dout.lo-
OR / cd / io secondbyte

ASSERT din.hi-
OR / cd io / secondbyte

ASSERT din.lo-
OR / cd io secondbyte

ASSERT regacc
OR rds- wrd- rdd- wrd-

% this is a De-Morganized version of
% Assert regacc (high) if any of rds,- wrd,- rdd,- wrd-
% are asserted (low)

ASSERT reset-
OR en.rst
OR init

STARTING-VECTOR 00000000000000000000
RESULT-VECTOR FE3CFBEA

PALEND