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Title:

RC3502 PROM Blasting Program User's Guide

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RC3502, TES202, PROM Blasting Program, English language.

Abstract:

This is a short description of how to blast application programs (e.g. the testsystem TOP80) into PROMs on a TES202.

(12 printed pages)

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. INTRODUCTION

This manual describes how you can blast your own applications into PROMs on the TES202 module. The requirements for the program to operate is an RC3502 with as many RAM memory modules as required by the application you want to blast (plus one for the blasting program) and an FPA connection to an RC8000.

The program is written in Real Time Pascal (RC3502 implementation). The program was developed by Bo Bagger Laursen.

2. PREPERATION FOR BLASTING

The binary files of your application must be linked by the utility program CROSSLINK with the modifications bind.yes, start.hOOFA.0002. The hexadecimal address is an example, but must be a PROM address (range for base addr. OOE4-OOFE), ref. [1], ref. [2].

The bootfile is generated by the following fp-command:

<bootfile> = punchl6 mode.crcl6 coreimage, where coreimage is the
output from crosslink.

When blasting is wanted, autoload the RC3502 with the bootfile boottes202, containing the blasting program. Note: If you want to blast more than one copy of your application, at most one set of TES202 modules can have module-no. as the start addresses from crosslinking.

When the autoloading is finished the command to opsys to start the program is RUN TES202.

3. PROGRAM PARAMETERS

The program will ask some questions before requesting your application. These are:

<fpa 100 receiver channel?>: Must be the level of the receiving
channel in decimal notation.

<no of application modules?>: Number of TES202 modules your application will occupy.

<no of copies?>: no of TES202 images of the application, you want
to produce.

<first TES202 modulno?>: module no in decimal (29 for the above
example OOFA.0002).

<relative module distance?>: if more than one copy, this is the
distance between the first module of the first copy and the first
module of the next copy. The distance should be kept if many
copies.

<check for all ones, yes or no?>: If yes, a complete check is
performed. If an error occurs the address where it was discovered
is printed.

PROMD: is the read value from the PROM.

<RAMD: is not initialized yet.</pre>

The rest of the PROM is skipped if an error has been detected.

<first program name> and <last program name>: must be taken from
the crosslink table.

When these questions are answered, the blasting program will wait for an autoload of your application. Whilst autoloading, the program will identify each module by its name. When the autoloading is finished the program will write <load OK>. <application module: <no> too big> will be written if your specifications do not follow the limitations of the cross-link-table, or if there was no room for checksums. It is so that at the end of a module there will be written one word containing -1 and 32 words of checksum for every 2 K bytes blasted.

The PROMs are checked for each cell after each blast and if a PROM fails more than 5 times, it will be skipped.

An errortext will be written where <PROM> is received and <RAM> is expected.

If a PROM fails, a new one can be installed without having to blast all the others again. (The total procedure must be repeated).

When blasting is finished, your application can be run by turning the kind switch (upper switch on front of the CPU) to kind 6, and push the autoload button.

Note: TES202 modules where module no. do not match the start addresses from crosslinking must be removed.

A. REFERENCES A.

[1] RCSL No 52-AA988:
PASCAL80 on the RC3502 Computer. How to Use the RC3502

- [2] RCSL No 52-AA1021:

 General Information for TES201/202 EPROM MODULES Rev. 0
- [3] RCSL No 52-AA1022: Technical Description for TES201/202 EPROM MODULES Rev. 0
- [4] RCSL No 52-AA1032: Technical Description for POW205 Power Supply Rev. 0
- [5] RCSL No 52-AA1016:
 RC3502, Operating Guide

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