

Example Program for the Embecosm Proxy RSP Server

Generated by Doxygen 1.5.7.1

Sun Apr 12 18:15:46 2009

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Chapter 1

Example Program for the Embecosm Proxy GDB RSP Server

1.1 About

This is a simple program which can be compiled with the OpenRISC 1000 toolchain to create a binary image compatible with the Proxy RSP Server configuration file "or1k.cfg".

1.2 Installation

This directory is not intended to be installed directly. If the OpenRISC 1000 toolchain is stalled, the binary can be rebuilt using the Makefile. However unless the toolchain matches exactly that used when creating the example, the result may not be compatible with or1k.cfg. For this reason, the binary image (file hello) is also distributed.

The Makefile may need editing to change the name and/or location of the OpenRISC 1000 compiler and linker tools.

The Makefile target "doc" can be used to rebuild this Doxygen documentation. It requires doxygen (see <<http://www.doxygen.org/>>) to be installed. PDF output also requires TeX (see <<http://www.tug.org/>>) to be installed.

1.3 Copying

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Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

hello.c	5
mainpage	7
utils.c	8
utils.h	10

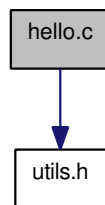
Chapter 3

File Documentation

3.1 hello.c File Reference

```
#include "utils.h"
```

Include dependency graph for hello.c:



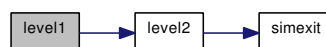
Functions

- void [level2](#) ()
- void [level1](#) ()
- [main](#) ()

3.1.1 Function Documentation

3.1.1.1 void level1 ()

Here is the call graph for this function:



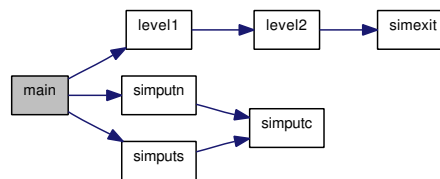
3.1.1.2 void level2 ()

Here is the call graph for this function:



3.1.1.3 main ()

Here is the call graph for this function:



3.2 mainpage File Reference

3.2.1 Detailed Description

3.3 utils.c File Reference

Defines

- #define `NOP_NOP` 0x0000
- #define `NOP_EXIT` 0x0001
- #define `NOP_REPORT` 0x0002
- #define `NOP_PRINTF` 0x0003
- #define `NOP_PUTC` 0x0004
- #define `NOP_CNT_RESET` 0x0005

Functions

- void `simexit` (int *rc*)
- void `simputc` (int *c*)
- void `simputh` (unsigned long int *i*)
- void `simputn` (unsigned long int *i*)
- void `simputs` (char **str*)

3.3.1 Define Documentation

3.3.1.1 #define `NOP_CNT_RESET` 0x0005

3.3.1.2 #define `NOP_EXIT` 0x0001

3.3.1.3 #define `NOP_NOP` 0x0000

3.3.1.4 #define `NOP_PRINTF` 0x0003

3.3.1.5 #define `NOP_PUTC` 0x0004

3.3.1.6 #define `NOP_REPORT` 0x0002

3.3.2 Function Documentation

3.3.2.1 void `simexit` (int *rc*)

Exit the simulator ! !

Parameters:

rc Return code (not used)

3.3.2.2 void `simputc` (int *c*)

Print a character ! !

Parameters:

c Character to print

3.3.2.3 void simputh (unsigned long int *i*)

Print a hex number ! !

Parameters:

i Number to print

Here is the call graph for this function:



3.3.2.4 void simputn (unsigned long int *i*)

Print a decimal number ! !

Parameters:

i Number to print

Here is the call graph for this function:



3.3.2.5 void simputs (char * *str*)

Print a string ! !

Parameters:

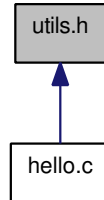
str String to print

Here is the call graph for this function:



3.4 utils.h File Reference

This graph shows which files directly or indirectly include this file:



Functions

- void [simexit](#) (int *rc*)
- void [simputc](#) (int *c*)
- void [simputh](#) (int *i*)
- void [simputs](#) (char **str*)

3.4.1 Function Documentation

3.4.1.1 void simexit (int *rc*)

Exit the simulator ! !

Parameters:

rc Return code (not used)

3.4.1.2 void simputc (int *c*)

Print a character ! !

Parameters:

c Character to print

3.4.1.3 void simputh (int *i*)

3.4.1.4 void simputs (char * *str*)

Print a string ! !

Parameters:

str String to print

Here is the call graph for this function:



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