

## Example Program for the Embecosm RSP Dummy Server

Generated by Doxygen 1.5.7.1

Wed Apr 8 19:10:28 2009



# Contents

<b>1</b>	<b>Example Program for the Embecosm RSP Dummy Server</b>	<b>1</b>
1.1	About . . . . .	1
1.2	Installation . . . . .	1
1.3	Copying . . . . .	1
<b>2</b>	<b>File Index</b>	<b>3</b>
2.1	File List . . . . .	3
<b>3</b>	<b>File Documentation</b>	<b>5</b>
3.1	hello.c File Reference . . . . .	5
3.1.1	Function Documentation . . . . .	5
3.1.1.1	level1 . . . . .	5
3.1.1.2	level2 . . . . .	6
3.1.1.3	main . . . . .	6
3.2	mainpage File Reference . . . . .	7
3.2.1	Detailed Description . . . . .	7
3.3	utils.c File Reference . . . . .	8
3.3.1	Define Documentation . . . . .	8
3.3.1.1	NOP_CNT_RESET . . . . .	8
3.3.1.2	NOP_EXIT . . . . .	8
3.3.1.3	NOP_NOP . . . . .	8
3.3.1.4	NOP_PRINTF . . . . .	8
3.3.1.5	NOP_PUTC . . . . .	8
3.3.1.6	NOP_REPORT . . . . .	8
3.3.2	Function Documentation . . . . .	8
3.3.2.1	simexit . . . . .	8
3.3.2.2	simputc . . . . .	8
3.3.2.3	simputh . . . . .	9
3.3.2.4	simputn . . . . .	9

3.3.2.5	simputs . . . . .	9
3.4	utils.h File Reference . . . . .	10
3.4.1	Function Documentation . . . . .	10
3.4.1.1	simexit . . . . .	10
3.4.1.2	simputc . . . . .	10
3.4.1.3	simputh . . . . .	10
3.4.1.4	simputs . . . . .	10

# Chapter 1

## Example Program for the Embecosm RSP Dummy 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 RSP Dummy 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

This program is licensed under the GNU General Public License. Full details are in the file COPYING in the main directory.

Copyright (C) 2009 Embecosm Limited <[info@embecosm.com](mailto:info@embecosm.com)>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

# Chapter 2

## File Index

### 2.1 File List

Here is a list of all files with brief descriptions:

<a href="#">hello.c</a>	5
<a href="#">mainpage</a>	7
<a href="#">utils.c</a>	8
<a href="#">utils.h</a>	10





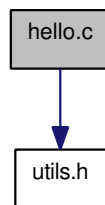
## Chapter 3

# File Documentation

### 3.1 hello.c File Reference

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

Include dependency graph for hello.c:



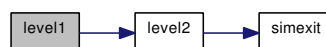
### Functions

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

#### 3.1.1 Function Documentation

##### 3.1.1.1 void level1 ()

Here is the call graph for this function:



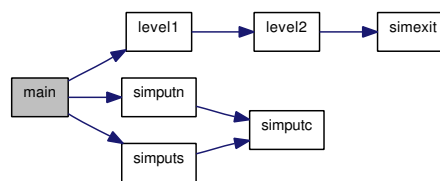
### 3.1.1.2 void level2 ()

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:**

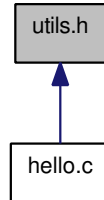
*str* String to print

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:



# Index

- hello.c, [5](#)
  - level1, [5](#)
  - level2, [5](#)
  - main, [6](#)
- level1
  - hello.c, [5](#)
- level2
  - hello.c, [5](#)
- main
  - hello.c, [6](#)
- mainpage, [7](#)
- NOP\_CNT\_RESET
  - utils.c, [8](#)
- NOP\_EXIT
  - utils.c, [8](#)
- NOP\_NOP
  - utils.c, [8](#)
- NOP\_PRINTF
  - utils.c, [8](#)
- NOP\_PUTC
  - utils.c, [8](#)
- NOP\_REPORT
  - utils.c, [8](#)
- simexit
  - utils.c, [8](#)
  - utils.h, [10](#)
- simputc
  - utils.c, [8](#)
  - utils.h, [10](#)
- simputh
  - utils.c, [8](#)
  - utils.h, [10](#)
- simputn
  - utils.c, [9](#)
- simputs
  - utils.c, [9](#)
  - utils.h, [10](#)
- utils.c, [8](#)
  - NOP\_CNT\_RESET, [8](#)
  - NOP\_EXIT, [8](#)
  - NOP\_NOP, [8](#)
  - NOP\_PRINTF, [8](#)
  - NOP\_PUTC, [8](#)
  - NOP\_REPORT, [8](#)
  - simexit, [8](#)
  - simputc, [8](#)
  - simputh, [8](#)
  - simputn, [9](#)
  - simputs, [9](#)
- utils.h, [10](#)
  - simexit, [10](#)
  - simputc, [10](#)
  - simputh, [10](#)
  - simputs, [10](#)