



## OVP Guide to Using Processor Models

### Model specific information for MIPS\_I7200

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## Model Release Status

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# Chapter 1

## Overview

This document provides the details of an OVP Fast Processor Model variant.

OVP Fast Processor Models are written in C and provide a C API for use in C based platforms. The models also provide a native interface for use in SystemC TLM2 platforms.

The models are written using the OVP VMI API that provides a Virtual Machine Interface that defines the behavior of the processor. The VMI API makes a clear line between model and simulator allowing very good optimization and world class high speed performance. Most models are provided as a binary shared object and also as source. This allows the download and use of the model binary or the use of the source to explore and modify the model.

The models are run through an extensive QA and regression testing process and most model families are validated using technology provided by the processor IP owners. There is a companion document (OVP Guide to Using Processor Models) which explains the general concepts of OVP Fast Processor Models and their use. It is downloadable from the OVPworld website documentation pages.

### 1.1 Description

MIPS32 Configurable Processor Model

If you need other variants, these models can be obtained from [www.OVPworld.org/MIPUser](http://www.OVPworld.org/MIPUser).

### 1.2 Licensing

Usage of binary model under license governing simulator usage. Source of model available under Imperas Software License Agreement.

## 1.3 Limitations

If this model is not part of your installation, then it is available for download from [www.OVPworld.org/MIPSSuser](http://www.OVPworld.org/MIPSSuser).

Cache model does not implement coherency

## 1.4 Verification

Models have been validated correct as part of the MIPS Verified program and run through the MIPS AVP test programs

## 1.5 Features

Only nanoMIPS32 Instruction set implemented

MMU Type: Standard TLB

L1 I and D cache model in either full or tag-only mode implemented (disabled by default)

Segmentation control implemented

Enhanced virtual address (EVA) supported

Vectored interrupts implemented

MT ASE implemented

DSP ASE Rev 2 implemented

## 1.6 Description

MIPS32 Configurable Processor Model

If you need other variants, these models can be obtained from [www.OVPworld.org/MIPSSuser](http://www.OVPworld.org/MIPSSuser).

## 1.7 Licensing

Usage of binary model under license governing simulator usage. Source of model available under Imperas Software License Agreement.

## 1.8 Limitations

If this model is not part of your installation, then it is available for download from [www.OVPworld.org/MIPSSuser](http://www.OVPworld.org/MIPSSuser).

Cache model does not implement coherency

## 1.9 Verification

Models have been validated correct as part of the MIPS Verified program and run through the MIPS AVP test programs

## 1.10 Features

Only nanoMIPS32 Instruction set implemented

MMU Type: Standard TLB

L1 I and D cache model in either full or tag-only mode implemented (disabled by default)

Segmentation control implemented

Enhanced virtual address (EVA) supported

Vectored interrupts implemented

MT ASE implemented

DSP ASE Rev 2 implemented

## 1.11 Description

MIPS32 Configurable Processor Model

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## 1.12 Licensing

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## 1.13 Limitations

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Cache model does not implement coherency



## 1.14 Verification

Models have been validated correct as part of the MIPS Verified program and run through the MIPS AVP test programs

## 1.15 Features

Only nanoMIPS32 Instruction set implemented

MMU Type: Standard TLB

L1 I and D cache model in either full or tag-only mode implemented (disabled by default)

Segmentation control implemented

Enhanced virtual address (EVA) supported

Vectored interrupts implemented

MT ASE implemented

DSP ASE Rev 2 implemented

## 1.16 Description

MIPS32 Configurable Processor Model

If you need other variants, these models can be obtained from [www.OVPworld.org/MIPUser](http://www.OVPworld.org/MIPUser).

## 1.17 Licensing

Usage of binary model under license governing simulator usage. Source of model available under Imperas Software License Agreement.

## 1.18 Limitations

If this model is not part of your installation, then it is available for download from [www.OVPworld.org/MIPUser](http://www.OVPworld.org/MIPUser).

Cache model does not implement coherency

## 1.19 Verification

Models have been validated correct as part of the MIPS Verified program and run through the MIPS AVP test programs

## 1.20 Features

Only nanoMIPS32 Instruction set implemented

MMU Type: Standard TLB

L1 I and D cache model in either full or tag-only mode implemented (disabled by default)

Segmentation control implemented

Enhanced virtual address (EVA) supported

Vectored interrupts implemented

MT ASE implemented

DSP ASE Rev 2 implemented

# Chapter 2

## Configuration

### 2.1 Location

This model's VLVN is `mips.ovpworld.org/processor/mips32/1.0`.

The model source is usually at:

`$IMPERAS_HOME/ImperasLib/source/mips.ovpworld.org/processor/mips32/1.0`

The model binary is usually at:

`$IMPERAS_HOME/lib/$IMPERAS_ARCH/ImperasLib/mips.ovpworld.org/processor/mips32/1.0`

### 2.2 GDB Path

The default GDB for this model is: `$IMPERAS_HOME/lib/$IMPERAS_ARCH/CrossCompiler/nanomips-elf/bin/nanomips-elf-gdb`.

### 2.3 Semi-Host Library

The default semi-host library file is `mips.ovpworld.org/semihosting/nanomips32Newlib/1.0`

### 2.4 Processor Endian-ness

This is a LITTLE endian model.

### 2.5 QuantumLeap Support

This processor is qualified to run in a QuantumLeap enabled simulator.

### 2.6 Processor ELF code

The ELF code supported by this model is: `0xf9`.

## Chapter 3

# All Variants in this model

This model has these variants

<b>Variant</b>	Description
I7200	(described in this document)
M5100	
M5150	
M6200	
M6250	
MIPS32R6	
P5600	

Table 3.1: All Variants in this model

## Chapter 4

# Bus Master Ports

This model has these bus master ports.

<b>Name</b>	min	max	Connect?	Description
INSTRUCTION	12	36	mandatory	
DATA	12	36	optional	
USPRAM	32	32	optional	unified scratchpad RAM

Table 4.1: Bus Master Ports

## Chapter 5

# Bus Slave Ports

This model has no bus slave ports.

## Chapter 6

# Net Ports

This model has these net ports.

Name	Type	Connect?	Description
reset	input	optional	CMP reset
dint	input	optional	Debug external interrupt
int0	input	optional	GIC external interrupt
int1	input	optional	GIC external interrupt
int2	input	optional	GIC external interrupt
int3	input	optional	GIC external interrupt
int4	input	optional	GIC external interrupt
int5	input	optional	GIC external interrupt
int6	input	optional	GIC external interrupt
int7	input	optional	GIC external interrupt
int8	input	optional	GIC external interrupt
int9	input	optional	GIC external interrupt
int10	input	optional	GIC external interrupt
int11	input	optional	GIC external interrupt
int12	input	optional	GIC external interrupt
int13	input	optional	GIC external interrupt
int14	input	optional	GIC external interrupt
int15	input	optional	GIC external interrupt
int16	input	optional	GIC external interrupt
int17	input	optional	GIC external interrupt
int18	input	optional	GIC external interrupt
int19	input	optional	GIC external interrupt
int20	input	optional	GIC external interrupt
int21	input	optional	GIC external interrupt
int22	input	optional	GIC external interrupt
int23	input	optional	GIC external interrupt
int24	input	optional	GIC external interrupt
int25	input	optional	GIC external interrupt
int26	input	optional	GIC external interrupt
int27	input	optional	GIC external interrupt
int28	input	optional	GIC external interrupt

int29	input	optional	GIC external interrupt
int30	input	optional	GIC external interrupt
int31	input	optional	GIC external interrupt
int32	input	optional	GIC external interrupt
int33	input	optional	GIC external interrupt
int34	input	optional	GIC external interrupt
int35	input	optional	GIC external interrupt
int36	input	optional	GIC external interrupt
int37	input	optional	GIC external interrupt
int38	input	optional	GIC external interrupt
int39	input	optional	GIC external interrupt
ej_disable_probe_debug	input	optional	GIC ej_disable_probe_debug
ejtagbrk_override	input	optional	GIC ejtagbrk_override
ej_dint_in	input	optional	GIC ej_dint_in
GCR_CUSTOM_BASE	output	optional	Provides the least significant 32-bits of the value written to the GCR_CUSTOM_BASE register. Second half of GCR_CUSTOM_BASE_HI and GCR_CUSTOM_BASE output.
GCR_CUSTOM_BASE_UPPER	output	optional	Provides the most significant 32-bits of value written to the the GCR_CUSTOM_BASE register. First half of GCR_CUSTOM_BASE_HI and GCR_CUSTOM_BASE output.
yq_CPU0	input	optional	Yield qualifier
yq0_CPU0	input	optional	Yield qualifier
yq1_CPU0	input	optional	Yield qualifier
yq2_CPU0	input	optional	Yield qualifier
yq3_CPU0	input	optional	Yield qualifier
yq4_CPU0	input	optional	Yield qualifier
yq5_CPU0	input	optional	Yield qualifier
yq6_CPU0	input	optional	Yield qualifier
yq7_CPU0	input	optional	Yield qualifier
yq8_CPU0	input	optional	Yield qualifier
yq9_CPU0	input	optional	Yield qualifier
yq10_CPU0	input	optional	Yield qualifier
yq11_CPU0	input	optional	Yield qualifier
yq12_CPU0	input	optional	Yield qualifier
yq13_CPU0	input	optional	Yield qualifier
yq14_CPU0	input	optional	Yield qualifier
yq15_CPU0	input	optional	Yield qualifier
dint_CPU0_VPE0	input	optional	Debug external interrupt
hwint0_CPU0_VPE0	input	optional	External interrupt
hwint1_CPU0_VPE0	input	optional	External interrupt
hwint2_CPU0_VPE0	input	optional	External interrupt



hwint3_CPU0_VPE0	input	optional	External interrupt
hwint4_CPU0_VPE0	input	optional	External interrupt
hwint5_CPU0_VPE0	input	optional	External interrupt
nmi_CPU0_VPE0	input	optional	Non-maskable external interrupt
EICPresent_CPU0_VPE0	input	optional	Input signal SI_EICPresent per VPE
EIC_RIPL_CPU0_VPE0	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU0_VPE0	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU0_VPE0	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU0_VPE0	input	optional	External interrupt controller vector offset
intISS_CPU0_VPE0	output	optional	True when interrupt request is serviced
causeTI_CPU0_VPE0	output	optional	True when timer interrupt expires
causeIP0_CPU0_VPE0	output	optional	Raised for software interrupt request IP0
causeIP1_CPU0_VPE0	output	optional	Raised for software interrupt request IP1
si_sleep_CPU0_VPE0	output	optional	True when the VPE is in WAIT state
hwint0	input	optional	External interrupt for compatibility
vc_run_CPU0_VPE0	input	optional	Set to force stop of execution on processor VPE (simulation control only)
dint_CPU0_VPE1	input	optional	Debug external interrupt
hwint0_CPU0_VPE1	input	optional	External interrupt
hwint1_CPU0_VPE1	input	optional	External interrupt
hwint2_CPU0_VPE1	input	optional	External interrupt
hwint3_CPU0_VPE1	input	optional	External interrupt
hwint4_CPU0_VPE1	input	optional	External interrupt
hwint5_CPU0_VPE1	input	optional	External interrupt
nmi_CPU0_VPE1	input	optional	Non-maskable external interrupt
EICPresent_CPU0_VPE1	input	optional	Input signal SI_EICPresent per VPE
EIC_RIPL_CPU0_VPE1	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU0_VPE1	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU0_VPE1	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU0_VPE1	input	optional	External interrupt controller vector offset
intISS_CPU0_VPE1	output	optional	True when interrupt request is serviced
causeTI_CPU0_VPE1	output	optional	True when timer interrupt expires
causeIP0_CPU0_VPE1	output	optional	Raised for software interrupt request IP0
causeIP1_CPU0_VPE1	output	optional	Raised for software interrupt request IP1
si_sleep_CPU0_VPE1	output	optional	True when the VPE is in WAIT state
vc_run_CPU0_VPE1	input	optional	Set to force stop of execution on processor VPE (simulation control only)
yq_CPU1	input	optional	Yield qualifier
yq0_CPU1	input	optional	Yield qualifier
yq1_CPU1	input	optional	Yield qualifier
yq2_CPU1	input	optional	Yield qualifier

yq3_CPU1	input	optional	Yield qualifier
yq4_CPU1	input	optional	Yield qualifier
yq5_CPU1	input	optional	Yield qualifier
yq6_CPU1	input	optional	Yield qualifier
yq7_CPU1	input	optional	Yield qualifier
yq8_CPU1	input	optional	Yield qualifier
yq9_CPU1	input	optional	Yield qualifier
yq10_CPU1	input	optional	Yield qualifier
yq11_CPU1	input	optional	Yield qualifier
yq12_CPU1	input	optional	Yield qualifier
yq13_CPU1	input	optional	Yield qualifier
yq14_CPU1	input	optional	Yield qualifier
yq15_CPU1	input	optional	Yield qualifier
dint_CPU1_VPE0	input	optional	Debug external interrupt
hwint0_CPU1_VPE0	input	optional	External interrupt
hwint1_CPU1_VPE0	input	optional	External interrupt
hwint2_CPU1_VPE0	input	optional	External interrupt
hwint3_CPU1_VPE0	input	optional	External interrupt
hwint4_CPU1_VPE0	input	optional	External interrupt
hwint5_CPU1_VPE0	input	optional	External interrupt
nmi_CPU1_VPE0	input	optional	Non-maskable external interrupt
EICPresent_CPU1_VPE0	input	optional	Input signal SI_EICPresent per VPE
EIC_RIPL_CPU1_VPE0	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU1_VPE0	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU1_VPE0	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU1_VPE0	input	optional	External interrupt controller vector offset
intISS_CPU1_VPE0	output	optional	True when interrupt request is serviced
causeTI_CPU1_VPE0	output	optional	True when timer interrupt expires
causeIP0_CPU1_VPE0	output	optional	Raised for software interrupt request IP0
causeIP1_CPU1_VPE0	output	optional	Raised for software interrupt request IP1
si_sleep_CPU1_VPE0	output	optional	True when the VPE is in WAIT state
vc_run_CPU1_VPE0	input	optional	Set to force stop of execution on processor VPE (simulation control only)
dint_CPU1_VPE1	input	optional	Debug external interrupt
hwint0_CPU1_VPE1	input	optional	External interrupt
hwint1_CPU1_VPE1	input	optional	External interrupt
hwint2_CPU1_VPE1	input	optional	External interrupt
hwint3_CPU1_VPE1	input	optional	External interrupt
hwint4_CPU1_VPE1	input	optional	External interrupt
hwint5_CPU1_VPE1	input	optional	External interrupt
nmi_CPU1_VPE1	input	optional	Non-maskable external interrupt
EICPresent_CPU1_VPE1	input	optional	Input signal SI_EICPresent per VPE

EIC_RIPL_CPU1_VPE1	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU1_VPE1	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU1_VPE1	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU1_VPE1	input	optional	External interrupt controller vector offset
intISS_CPU1_VPE1	output	optional	True when interrupt request is serviced
causeTI_CPU1_VPE1	output	optional	True when timer interrupt expires
causeIP0_CPU1_VPE1	output	optional	Raised for software interrupt request IP0
causeIP1_CPU1_VPE1	output	optional	Raised for software interrupt request IP1
si_sleep_CPU1_VPE1	output	optional	True when the VPE is in WAIT state
vc_run_CPU1_VPE1	input	optional	Set to force stop of execution on processor VPE (simulation control only)
yq_CPU2	input	optional	Yield qualifier
yq0_CPU2	input	optional	Yield qualifier
yq1_CPU2	input	optional	Yield qualifier
yq2_CPU2	input	optional	Yield qualifier
yq3_CPU2	input	optional	Yield qualifier
yq4_CPU2	input	optional	Yield qualifier
yq5_CPU2	input	optional	Yield qualifier
yq6_CPU2	input	optional	Yield qualifier
yq7_CPU2	input	optional	Yield qualifier
yq8_CPU2	input	optional	Yield qualifier
yq9_CPU2	input	optional	Yield qualifier
yq10_CPU2	input	optional	Yield qualifier
yq11_CPU2	input	optional	Yield qualifier
yq12_CPU2	input	optional	Yield qualifier
yq13_CPU2	input	optional	Yield qualifier
yq14_CPU2	input	optional	Yield qualifier
yq15_CPU2	input	optional	Yield qualifier
dint_CPU2_VPE0	input	optional	Debug external interrupt
hwint0_CPU2_VPE0	input	optional	External interrupt
hwint1_CPU2_VPE0	input	optional	External interrupt
hwint2_CPU2_VPE0	input	optional	External interrupt
hwint3_CPU2_VPE0	input	optional	External interrupt
hwint4_CPU2_VPE0	input	optional	External interrupt
hwint5_CPU2_VPE0	input	optional	External interrupt
nmi_CPU2_VPE0	input	optional	Non-maskable external interrupt
EICPresent_CPU2_VPE0	input	optional	Input signal SLEICPresent per VPE
EIC_RIPL_CPU2_VPE0	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU2_VPE0	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU2_VPE0	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU2_VPE0	input	optional	External interrupt controller vector offset

intISS_CPU2_VPE0	output	optional	True when interrupt request is serviced
causeTI_CPU2_VPE0	output	optional	True when timer interrupt expires
causeIP0_CPU2_VPE0	output	optional	Raised for software interrupt request IP0
causeIP1_CPU2_VPE0	output	optional	Raised for software interrupt request IP1
si_sleep_CPU2_VPE0	output	optional	True when the VPE is in WAIT state
vc_run_CPU2_VPE0	input	optional	Set to force stop of execution on processor VPE (simulation control only)
dint_CPU2_VPE1	input	optional	Debug external interrupt
hwint0_CPU2_VPE1	input	optional	External interrupt
hwint1_CPU2_VPE1	input	optional	External interrupt
hwint2_CPU2_VPE1	input	optional	External interrupt
hwint3_CPU2_VPE1	input	optional	External interrupt
hwint4_CPU2_VPE1	input	optional	External interrupt
hwint5_CPU2_VPE1	input	optional	External interrupt
nmi_CPU2_VPE1	input	optional	Non-maskable external interrupt
EICPresent_CPU2_VPE1	input	optional	Input signal SI_EICPresent per VPE
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EIC_EICSS_CPU2_VPE1	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU2_VPE1	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU2_VPE1	input	optional	External interrupt controller vector offset
intISS_CPU2_VPE1	output	optional	True when interrupt request is serviced
causeTI_CPU2_VPE1	output	optional	True when timer interrupt expires
causeIP0_CPU2_VPE1	output	optional	Raised for software interrupt request IP0
causeIP1_CPU2_VPE1	output	optional	Raised for software interrupt request IP1
si_sleep_CPU2_VPE1	output	optional	True when the VPE is in WAIT state
vc_run_CPU2_VPE1	input	optional	Set to force stop of execution on processor VPE (simulation control only)
yq_CPU3	input	optional	Yield qualifier
yq0_CPU3	input	optional	Yield qualifier
yq1_CPU3	input	optional	Yield qualifier
yq2_CPU3	input	optional	Yield qualifier
yq3_CPU3	input	optional	Yield qualifier
yq4_CPU3	input	optional	Yield qualifier
yq5_CPU3	input	optional	Yield qualifier
yq6_CPU3	input	optional	Yield qualifier
yq7_CPU3	input	optional	Yield qualifier
yq8_CPU3	input	optional	Yield qualifier
yq9_CPU3	input	optional	Yield qualifier
yq10_CPU3	input	optional	Yield qualifier
yq11_CPU3	input	optional	Yield qualifier
yq12_CPU3	input	optional	Yield qualifier
yq13_CPU3	input	optional	Yield qualifier
yq14_CPU3	input	optional	Yield qualifier

yq15_CPU3	input	optional	Yield qualifier
dint_CPU3_VPE0	input	optional	Debug external interrupt
hwint0_CPU3_VPE0	input	optional	External interrupt
hwint1_CPU3_VPE0	input	optional	External interrupt
hwint2_CPU3_VPE0	input	optional	External interrupt
hwint3_CPU3_VPE0	input	optional	External interrupt
hwint4_CPU3_VPE0	input	optional	External interrupt
hwint5_CPU3_VPE0	input	optional	External interrupt
nmi_CPU3_VPE0	input	optional	Non-maskable external interrupt
EICPresent_CPU3_VPE0	input	optional	Input signal SLEICPresent per VPE
EIC_RIPL_CPU3_VPE0	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU3_VPE0	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU3_VPE0	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU3_VPE0	input	optional	External interrupt controller vector offset
intISS_CPU3_VPE0	output	optional	True when interrupt request is serviced
causeTI_CPU3_VPE0	output	optional	True when timer interrupt expires
causeIP0_CPU3_VPE0	output	optional	Raised for software interrupt request IP0
causeIP1_CPU3_VPE0	output	optional	Raised for software interrupt request IP1
si_sleep_CPU3_VPE0	output	optional	True when the VPE is in WAIT state
vc_run_CPU3_VPE0	input	optional	Set to force stop of execution on processor VPE (simulation control only)
dint_CPU3_VPE1	input	optional	Debug external interrupt
hwint0_CPU3_VPE1	input	optional	External interrupt
hwint1_CPU3_VPE1	input	optional	External interrupt
hwint2_CPU3_VPE1	input	optional	External interrupt
hwint3_CPU3_VPE1	input	optional	External interrupt
hwint4_CPU3_VPE1	input	optional	External interrupt
hwint5_CPU3_VPE1	input	optional	External interrupt
nmi_CPU3_VPE1	input	optional	Non-maskable external interrupt
EICPresent_CPU3_VPE1	input	optional	Input signal SLEICPresent per VPE
EIC_RIPL_CPU3_VPE1	input	optional	External interrupt controller RIPL (alias of hwint0 - 5 or 7)
EIC_EICSS_CPU3_VPE1	input	optional	External interrupt controller EICSS
EIC_VectorNum_CPU3_VPE1	input	optional	External interrupt controller vector number
EIC_VectorOffset_CPU3_VPE1	input	optional	External interrupt controller vector offset
intISS_CPU3_VPE1	output	optional	True when interrupt request is serviced
causeTI_CPU3_VPE1	output	optional	True when timer interrupt expires
causeIP0_CPU3_VPE1	output	optional	Raised for software interrupt request IP0
causeIP1_CPU3_VPE1	output	optional	Raised for software interrupt request IP1
si_sleep_CPU3_VPE1	output	optional	True when the VPE is in WAIT state
vc_run_CPU3_VPE1	input	optional	Set to force stop of execution on processor VPE (simulation control only)

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Table 6.1: Net Ports

## Chapter 7

# FIFO Ports

This model has no FIFO ports.

# Chapter 8

## Formal Parameters

Name	Type	Description
variant	Enumeration	Processor variant
endian	Endian	Model endian
cacheenable	Enumeration	Select cache model mode (default, tag or full)
cachedebug	Uns32	Cache debug flags
cacheextbiuinfo	Pointer	Pointer to platform-provided BIU cache info structure
mipsHexFile	String	Load a MIPS hex file (test-mode)
IMPERAS_MIPS_AVP_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes (specific for AVP test termination)
cacheIndexBypassTLB	Boolean	When set, cache index ops do not generate TLB exceptions
MIPS_TRACE	Boolean	Enable MIPS-format trace output
gprNames	Boolean	Disassemble the register names from the default ABI instead of register numbers for MIPS-format trace output
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, accesses of memory not defined by platform will cause bus error exceptions
fixedMMU	Boolean	Override the MMU type to fixed mapping when true (sets Config.MT=3, Config.KU/K23=2 and Config1.MMUSizeM1=0)
fixedDbgRegSize	Boolean	Enable applications to debug on P5600 with GDB version 2015.06-05 and prior
removeDSP	Boolean	Override the DSP-present configuration when true (sets Config3.DSPP/DSP2P=0)
removeCMP	Boolean	Override the CMP-Present configuration when true (sets Config3.CMGCR and GCR_BASE to 0)
removeFP	Boolean	Override the FP-Present configuration when true (sets Config1.FP to 0)
removeFTLB	Boolean	Override the FTLBEn configuration when true (disable FTLB)
isISA	Boolean	Enable to specify ISA model (reset address from ELF, all coprocessors enabled)
hiddenTLBentries	Boolean	Deprecated - Instead set config1MMUSizeM1 to maximum value to improve performance
perfCounters	Uns32	Performance Counters
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)



ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC implementation (MT cores only)
ITCFIFODepth	Uns32	Specify ITC FIFO cell depth. By default supports 4.
ITCEmptyOnReset	Boolean	Specify ITC E/F cells reset to a known empty state.
MTFPU	Uns32	Enable multi-threaded FPU (1:old mttc1 behavior, 2:new mttc1 behavior)
supportDenormals	Boolean	Enable to specify that the FPU supports denormal operands and results
VPE0MaxTC	Uns32	Specifies the maximum TCs initially on VPE0. Ignored if less than two VPEs configured.
VPE1MaxTC	Uns32	Specifies the maximum TCs initially on VPE1. Ignored if less than three VPEs configured.
mpuRegions	Uns32	Number of regions for memory protection unit
mpuType	Uns32	Type of MPU implementation
mpuEnable	Boolean	Enable MPU2 segment control at reset
mpuSegment0	Uns32	Attributes for segment 0 in MPU2 SegmentControl_0 register
mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 register
mpuSegment2	Uns32	Attributes for segment 2 in MPU2 SegmentControl_0 register
mpuSegment3	Uns32	Attributes for segment 3 in MPU2 SegmentControl_0 register
mpuSegment4	Uns32	Attributes for segment 4 in MPU2 SegmentControl_1 register
mpuSegment5	Uns32	Attributes for segment 5 in MPU2 SegmentControl_1 register
mpuSegment6	Uns32	Attributes for segment 6 in MPU2 SegmentControl_1 register
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 register
mpuSegment8	Uns32	Attributes for segment 8 in MPU2 SegmentControl_2 register
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 register
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 register
mpuSegment11	Uns32	Attributes for segment 11 in MPU2 SegmentControl_2 register
mpuSegment12	Uns32	Attributes for segment 12 in MPU2 SegmentControl_3 register
mpuSegment13	Uns32	Attributes for segment 13 in MPU2 SegmentControl_3 register
mpuSegment14	Uns32	Attributes for segment 14 in MPU2 SegmentControl_3 register
mpuSegment15	Uns32	Attributes for segment 15 in MPU2 SegmentControl_3 register
mvpconf0vpe	Uns32	Override MVPConf0.PVPE
tcDisable	Uns32	Number of disabled TCs
vpeDisable	Uns32	Number of disabled VPEs
mvpconf0tc	Uns32	Override MVPConf0.PTC
mvpconf0pcp	Boolean	Override MVPConf0.PCP
mvpconf0tcp	Boolean	Override MVPConf0.TCP
mvpconf1c1f	Boolean	Override MVPConf.C1F
mvpcontrolPolicyMode	Boolean	Override MVPControl.POLICY_MODE

hasFDC	Uns32	Specify the size of Fast Debug Channel register block
licenseWarningDays	Uns32	Specify the number of days before a license expires to start issuing a warning. 0 disables warnings.
MIPS_UHI	Boolean	Enable MIPS-Unified Hosting interface
mipsUhiArgs	String	Specifies UHI arguments string separated by spaces
mipsUhiJail	String	Specifies UHI jailroot
MIPS_DV_MODE	Boolean	Enable Design Verification mode
MIPS_MAGIC_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes
enableTrickbox	Boolean	Enable trickbox addresses (specific for AVP)
fpuexcdisable	Boolean	Disable FPU exceptions
TRU_PRESENT	Boolean	Disable or Enable based on TRU presence to control certain fields (e.x.perfCtl.PCTD
ucLLwordsLocked	Uns32	Numbers of words (4 byte) an uncached LL is locking. Maximum: 4K
FUSA	Boolean	Enable Functional Safety
CPC_FAULT_SUPPORTED	Uns32	Specify the value for Functional Safety Supported register
CPC_FAULT_ENABLE	Uns32	Specify the value for Functional Safety Enable register
cop2Bits	Uns32	Specifies width in bits of COP2 registers (32 or 64)
cop2FileName	String	Specifies COP2 dynamically-loaded object (.so/.dll) defining COP2 instructions
udiConfig	Int32	Specifies UDI configuration attribute
udiFileName	String	Specifies UDI dynamically-loaded object (.so/.dll) defining UDI instructions
vectoredinterrupt	Boolean	Enables vectored interrupts (sets Config3 VInt)
externalinterrupt	Boolean	Enables the use of an external interrupt controller (sets Config3 VEIC)
config3VEIC_VPE0	Boolean	Enables an external interrupt controller on VPE0 (sets Config3 VEIC)
config3VEIC_VPE1	Boolean	Enables an external interrupt controller on VPE1 (sets Config3 VEIC)
config3VEIC_VPE2	Boolean	Enables an external interrupt controller on VPE2 (sets Config3 VEIC)
config3VEIC_VPE3	Boolean	Enables an external interrupt controller on VPE3 (sets Config3 VEIC)
rootFixedMMU	Boolean	Override the root MMU type to fixed mapping when true (sets Config.MT=3 and Config.KU/K23=2)
rootMMUSizeM1	Uns32	Override the root MMUSizeM1 field in Config1 register (number of MMU entries-1)
srscctlHSS	Uns32	Override the HSS field in SRSCtl register (number of shadow register sets)
firPS	Uns32	Override the PS field in FIR register
firHas2008	Uns32	Override the Has2008 field in FIR register
usePreciseFpu	Uns32	Use the precise Floating Point emulation
simulateLite	Enumeration	Run Simulation with optimization. There are several optimizations which could be combined (NONE, FS, MA or FSMA)
pridCompanyOptions	Uns32	Override the Company Options field in PRId register
pridRevision	Uns32	Override the Revision field in PRId register
globalClusterNum	Uns32	Override the ClusterNum field in GlobalNumber register
intctlIPTI	Uns32	Override the IPTI field in IntCtl register

intctlIPFDC	Uns32	Override the IPFDC field in IntCtl register
intctlIPPCI	Uns32	Override the IPPCI field in IntCtl register
numWatch	Uns32	Specify number of WatchLo/WatchHi register pairs
maxVP	Uns32	Specify maximum number of Virtual Processors present in a core
numVP	Uns32	Specify number of Virtual Processors to be present
numVPtoStart	Uns32	Specify number of Virtual Processors to be started
sharedTLBindex	Uns32	Specify first shared TLB Index between Virtual Cores
xconfigSpecified	Boolean	True if the configuration comes from a valid xconfig file
intctlIPTI.CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
intctlIPTI.CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
intctlIPTI.CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
intctlIPTI.CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
intctlIPTI.CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
intctlIPTI.CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
intctlIPTI.CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
intctlIPTI.CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
intctlIPTI.CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
intctlIPTI.CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1
intctlIPTI.CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
intctlIPTI.CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
intctlIPTI.CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
intctlIPTI.CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
intctlIPTI.CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
intctlIPTI.CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
intctlIPTI.CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
intctlIPTI.CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
intctlIPTI.CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
intctlIPTI.CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
intctlIPTI.CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
intctlIPTI.CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
intctlIPTI.CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2

intctlIPTI.CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
intctlIPTI.CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
intctlIPTI.CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
intctlIPTI.CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
intctlIPTI.CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
intctlIPTI.CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
intctlIPTI.CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
intctlIPTI.CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
intctlIPTI.CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
intctlIPFDC_CPU0_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP0
intctlIPFDC_CPU0_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP1
intctlIPFDC_CPU0_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP2
intctlIPFDC_CPU0_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP3
intctlIPFDC_CPU1_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP0
intctlIPFDC_CPU1_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP1
intctlIPFDC_CPU1_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP2
intctlIPFDC_CPU1_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP3
intctlIPFDC_CPU2_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP0
intctlIPFDC_CPU2_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP1
intctlIPFDC_CPU2_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP2
intctlIPFDC_CPU2_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP3
intctlIPFDC_CPU3_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP0
intctlIPFDC_CPU3_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP1
intctlIPFDC_CPU3_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP2
intctlIPFDC_CPU3_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP3
intctlIPFDC_CPU4_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP0
intctlIPFDC_CPU4_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP1
intctlIPFDC_CPU4_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP2

intctlIPFDC_CPU4_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP3
intctlIPFDC_CPU5_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP0
intctlIPFDC_CPU5_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP1
intctlIPFDC_CPU5_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP2
intctlIPFDC_CPU5_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP3
intctlIPFDC_CPU6_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP0
intctlIPFDC_CPU6_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP1
intctlIPFDC_CPU6_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP2
intctlIPFDC_CPU6_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP3
intctlIPFDC_CPU7_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP0
intctlIPFDC_CPU7_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP1
intctlIPFDC_CPU7_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP2
intctlIPFDC_CPU7_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP3
intctlIPPCI_CPU0_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP0
intctlIPPCI_CPU0_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP1
intctlIPPCI_CPU0_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP2
intctlIPPCI_CPU0_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP3
intctlIPPCI_CPU1_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP0
intctlIPPCI_CPU1_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP1
intctlIPPCI_CPU1_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP2
intctlIPPCI_CPU1_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP3
intctlIPPCI_CPU2_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP0
intctlIPPCI_CPU2_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP1
intctlIPPCI_CPU2_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP2
intctlIPPCI_CPU2_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP3
intctlIPPCI_CPU3_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP0
intctlIPPCI_CPU3_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP1
intctlIPPCI_CPU3_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP2

intctlIPPCI.CPU3_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP3
intctlIPPCI.CPU4_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP0
intctlIPPCI.CPU4_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP1
intctlIPPCI.CPU4_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP2
intctlIPPCI.CPU4_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP3
intctlIPPCI.CPU5_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP0
intctlIPPCI.CPU5_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP1
intctlIPPCI.CPU5_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP2
intctlIPPCI.CPU5_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP3
intctlIPPCI.CPU6_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP0
intctlIPPCI.CPU6_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP1
intctlIPPCI.CPU6_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP2
intctlIPPCI.CPU6_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP3
intctlIPPCI.CPU7_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP0
intctlIPPCI.CPU7_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP1
intctlIPPCI.CPU7_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP2
intctlIPPCI.CPU7_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP3
segcfg0PA	Uns32	Set CFG0.PA field of SegCtl0 register
segcfg1PA	Uns32	Set CFG1.PA field of SegCtl0 register
segcfg2PA	Uns32	Set CFG2.PA field of SegCtl1 register
segcfg3PA	Uns32	Set CFG3.PA field of SegCtl1 register
segcfg4PA	Uns32	Set CFG4.PA field of SegCtl2 register
segcfg5PA	Uns32	Set CFG5.PA field of SegCtl2 register
segcfg0AM	Uns32	Set CFG0.AM field of SegCtl0 register
segcfg1AM	Uns32	Set CFG1.AM field of SegCtl0 register
segcfg2AM	Uns32	Set CFG2.AM field of SegCtl1 register
segcfg3AM	Uns32	Set CFG3.AM field of SegCtl1 register
segcfg4AM	Uns32	Set CFG4.AM field of SegCtl2 register
segcfg5AM	Uns32	Set CFG5.AM field of SegCtl2 register
segcfg0EU	Uns32	Set CFG0.EU field of SegCtl0 register
segcfg1EU	Uns32	Set CFG1.EU field of SegCtl0 register
segcfg2EU	Uns32	Set CFG2.EU field of SegCtl1 register
segcfg3EU	Uns32	Set CFG3.EU field of SegCtl1 register
segcfg4EU	Uns32	Set CFG4.EU field of SegCtl2 register
segcfg5EU	Uns32	Set CFG5.EU field of SegCtl2 register
segcfg0C	Uns32	Set CFG0.C field of SegCtl0 register
segcfg1C	Uns32	Set CFG1.C field of SegCtl0 register
segcfg2C	Uns32	Set CFG2.C field of SegCtl1 register
segcfg3C	Uns32	Set CFG3.C field of SegCtl1 register

segcfg4C	Uns32	Set CFG4.C field of SegCtl2 register
segcfg5C	Uns32	Set CFG5.C field of SegCtl2 register
cdmmSize	Uns32	Override the cdmmSize reset value
configAR	Uns32	Enables R6 support
configBM	Uns32	Override the BM field in Config register (burst mode)
configDSP	Boolean	Override Config.DSP (data scratchpad RAM present)
configISP	Boolean	Override Config.ISP (instruction scratchpad RAM present)
configK0	Uns32	Override power on value of Config.K0 (set Kseg0 cacheability)
configKU	Uns32	Override power on value of Config.KU (set Useg cacheability)
configK23	Uns32	Override power on value of Config.K23 (set Kseg23 cacheability)
configMDU	Boolean	Override Config.MDU (iterative multiply/divide unit)
configMM	Boolean	Override Config.MM (merging mode for write)
configMT	Uns32	Override Config.MT
configSB	Boolean	Override Config.SB (simple bus transfers only)
configBCP	Boolean	Override Config.BCP (Buffer Cache Present)
MIPS16eASE	Boolean	Override Config1.CA (enables the MIPS16e ASE)
config1DA	Uns32	Override Config1.DA (Dcache associativity)
config1DL	Uns32	Override Config1.DL (Dcache line size)
config1DS	Uns32	Override Config1.DS (Dcache sets per way)
config1EP	Boolean	Override Config1.EP (EJTag present)
config1IA	Uns32	Override Config1.IA (Icache associativity)
config1IL	Uns32	Override Config1.IL (Icache line size)
config1IS	Uns32	Override Config1.IS (Icache sets per way)
config1MMUSizeM1	Uns32	Override Config1.MMUSizeM1 (number of MMU entries-1)
config1MMUSizeM1_VPE1	Uns32	Override Config1.MMUSizeM1 for VPE1
config1MMUSizeM1_VPE2	Uns32	Override Config1.MMUSizeM1 for VPE2
config1MMUSizeM1_VPE3	Uns32	Override Config1.MMUSizeM1 for VPE3
config1WR	Boolean	Override Config1.WR (watchpoint registers present)
config1PC	Boolean	Override Config1.PC (Performance Counters present)
config1C2	Boolean	Override Config1.C2 (Coprocessor 2 present)
config2SU	Uns32	Override the SU field in Config2 register
config2SS	Uns32	Override the SS field in Config2 register
config2SL	Uns32	Override the SL field in Config2 register
config2SA	Uns32	Override the SA field in Config2 register
config3BI	Boolean	Override Config3.BI
config3BP	Boolean	Override Config3.BP
config3CDMM	Boolean	Override Config3.CDMM
config3CTXTC	Boolean	Override Config3.CTXTC
config3DSPP	Boolean	Override Config3.DSPP
config3DSP2P	Boolean	Override Config3.DSP2P
config3IPLW	Uns32	Override Config3.IPLW
config3ISA	Uns32	Override Config3.ISA
config3ISAOnExc	Boolean	Override Config3.ISAOnExc
config3ITL	Boolean	Override Config3.ITL
config3LPA	Boolean	Override Config3.LPA
config3MCU	Boolean	Override Config3.MCU

config3MMAR	Uns32	Override Config3.MMAR
config3RXI	Boolean	Override Config3.RXI
config3SC	Boolean	Override Config3.SC
config3ULRI	Boolean	Override Config3.ULRI
config3VZ	Boolean	Override Config3.VZ
config3MSAP	Boolean	Override Config3.MSAP
config3CMGCR	Boolean	Override the CMGCR field in Config3 register
config3SP	Boolean	Override the SP field in Config3 register
config3TL	Uns32	Override the TL field in Config3 register
config3PW	Boolean	Override the PW field in Config3 register
config4AE	Boolean	Override Config4.AE
config4IE	Uns32	Override Config4.IE
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation depends on MMUExtDef value)
config4MMUExtDef	Uns32	Override Config4.MMUExtDef
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt
config4KScrExist	Uns32	Override Config4.KScrExist
config5EVA	Boolean	Override Config5.EVA
config5LLB	Boolean	Override Config5.LLB (LLAddr supports LLbit)
config5MRP	Boolean	Override Config5.MRP (Maar Present)
config5NFExists	Boolean	Override Config5.NFExists
mips32Macro	Boolean	Enables the MIPS32 SAVE and RESTORE macro instructions. Ignored if Config5.CA2 is not set)
config5MSAEn	Boolean	Override Config5.MSAEn
config5MVH	Boolean	Override Config5.MVH (enable MTHC0 and MFHC0 instructions)
config5DEC	Boolean	Override Config5.DEC (to test Dual Endian Capability)
config5GI	Uns32	Override Config5.GI (enable GINV)
config5CRCP	Boolean	Override Config5.CRCP (CRCP Present)
config5VP	Boolean	Override Config5.VP
config6FTLBEEn	Boolean	Override power on value of Config6.FTLBEEn
config7AR	Boolean	Override Config7.AR (Alias removed Data cache)
config7DCIDX_MODE	Uns32	Override Config7.DCIDX_MODE
config7HCI	Boolean	Override Config7.HCI (Hardware Cache Initialization)
config7IAR	Boolean	Override Config7.IAR (Alias removed Instruction cache)
config7WII	Boolean	Override Config7.WII (wait IE/IXMT ignore)
config7ES	Uns32	Override the ES field in Config7 register (Externalize sync)
config7WR	Boolean	Override Config7[31] bit (Alternative implementation of Watch registers)
config7FPR	Boolean	Override Config7.FPR (one-half FPU clock ratio)
config7USP	Uns32	Override Config7.USP (USPRAM enable)
config7BTLM	Boolean	Override Config7.BTLM bit
config7BusSlp	Boolean	Override Config7.BusSlp bit
config7IVAD	Boolean	Override Config7.IVAD bit
config7RPS	Boolean	Override Config7.RPS bit
config7IAR_CPU0_VPE0	Boolean	Override Config7.IAR bit for CPU0/VPE0
config7IAR_CPU0_VPE1	Boolean	Override Config7.IAR bit for CPU0/VPE1
config7IAR_CPU0_VPE2	Boolean	Override Config7.IAR bit for CPU0/VPE2
config7IAR_CPU0_VPE3	Boolean	Override Config7.IAR bit for CPU0/VPE3
config7IAR_CPU1_VPE0	Boolean	Override Config7.IAR bit for CPU1/VPE0
config7IAR_CPU1_VPE1	Boolean	Override Config7.IAR bit for CPU1/VPE1
config7IAR_CPU1_VPE2	Boolean	Override Config7.IAR bit for CPU1/VPE2



config7IAR_CPU1_VPE3	Boolean	Override Config7.IAR bit for CPU1/VPE3
config7IAR_CPU2_VPE0	Boolean	Override Config7.IAR bit for CPU2/VPE0
config7IAR_CPU2_VPE1	Boolean	Override Config7.IAR bit for CPU2/VPE1
config7IAR_CPU2_VPE2	Boolean	Override Config7.IAR bit for CPU2/VPE2
config7IAR_CPU2_VPE3	Boolean	Override Config7.IAR bit for CPU2/VPE3
config7IAR_CPU3_VPE0	Boolean	Override Config7.IAR bit for CPU3/VPE0
config7IAR_CPU3_VPE1	Boolean	Override Config7.IAR bit for CPU3/VPE1
config7IAR_CPU3_VPE2	Boolean	Override Config7.IAR bit for CPU3/VPE2
config7IAR_CPU3_VPE3	Boolean	Override Config7.IAR bit for CPU3/VPE3
config7IAR_CPU4_VPE0	Boolean	Override Config7.IAR bit for CPU4/VPE0
config7IAR_CPU4_VPE1	Boolean	Override Config7.IAR bit for CPU4/VPE1
config7IAR_CPU4_VPE2	Boolean	Override Config7.IAR bit for CPU4/VPE2
config7IAR_CPU4_VPE3	Boolean	Override Config7.IAR bit for CPU4/VPE3
config7IAR_CPU5_VPE0	Boolean	Override Config7.IAR bit for CPU5/VPE0
config7IAR_CPU5_VPE1	Boolean	Override Config7.IAR bit for CPU5/VPE1
config7IAR_CPU5_VPE2	Boolean	Override Config7.IAR bit for CPU5/VPE2
config7IAR_CPU5_VPE3	Boolean	Override Config7.IAR bit for CPU5/VPE3
config7IAR_CPU6_VPE0	Boolean	Override Config7.IAR bit for CPU6/VPE0
config7IAR_CPU6_VPE1	Boolean	Override Config7.IAR bit for CPU6/VPE1
config7IAR_CPU6_VPE2	Boolean	Override Config7.IAR bit for CPU6/VPE2
config7IAR_CPU6_VPE3	Boolean	Override Config7.IAR bit for CPU6/VPE3
config7IAR_CPU7_VPE0	Boolean	Override Config7.IAR bit for CPU7/VPE0
config7IAR_CPU7_VPE1	Boolean	Override Config7.IAR bit for CPU7/VPE1
config7IAR_CPU7_VPE2	Boolean	Override Config7.IAR bit for CPU7/VPE2
config7IAR_CPU7_VPE3	Boolean	Override Config7.IAR bit for CPU7/VPE3
config7IVAD_CPU0_VPE0	Boolean	Override Config7.IVAD bit for CPU0/VPE0
config7IVAD_CPU0_VPE1	Boolean	Override Config7.IVAD bit for CPU0/VPE1
config7IVAD_CPU0_VPE2	Boolean	Override Config7.IVAD bit for CPU0/VPE2
config7IVAD_CPU0_VPE3	Boolean	Override Config7.IVAD bit for CPU0/VPE3
config7IVAD_CPU1_VPE0	Boolean	Override Config7.IVAD bit for CPU1/VPE0
config7IVAD_CPU1_VPE1	Boolean	Override Config7.IVAD bit for CPU1/VPE1
config7IVAD_CPU1_VPE2	Boolean	Override Config7.IVAD bit for CPU1/VPE2
config7IVAD_CPU1_VPE3	Boolean	Override Config7.IVAD bit for CPU1/VPE3
config7IVAD_CPU2_VPE0	Boolean	Override Config7.IVAD bit for CPU2/VPE0
config7IVAD_CPU2_VPE1	Boolean	Override Config7.IVAD bit for CPU2/VPE1
config7IVAD_CPU2_VPE2	Boolean	Override Config7.IVAD bit for CPU2/VPE2
config7IVAD_CPU2_VPE3	Boolean	Override Config7.IVAD bit for CPU2/VPE3
config7IVAD_CPU3_VPE0	Boolean	Override Config7.IVAD bit for CPU3/VPE0
config7IVAD_CPU3_VPE1	Boolean	Override Config7.IVAD bit for CPU3/VPE1
config7IVAD_CPU3_VPE2	Boolean	Override Config7.IVAD bit for CPU3/VPE2
config7IVAD_CPU3_VPE3	Boolean	Override Config7.IVAD bit for CPU3/VPE3
config7IVAD_CPU4_VPE0	Boolean	Override Config7.IVAD bit for CPU4/VPE0
config7IVAD_CPU4_VPE1	Boolean	Override Config7.IVAD bit for CPU4/VPE1
config7IVAD_CPU4_VPE2	Boolean	Override Config7.IVAD bit for CPU4/VPE2
config7IVAD_CPU4_VPE3	Boolean	Override Config7.IVAD bit for CPU4/VPE3
config7IVAD_CPU5_VPE0	Boolean	Override Config7.IVAD bit for CPU5/VPE0
config7IVAD_CPU5_VPE1	Boolean	Override Config7.IVAD bit for CPU5/VPE1
config7IVAD_CPU5_VPE2	Boolean	Override Config7.IVAD bit for CPU5/VPE2
config7IVAD_CPU5_VPE3	Boolean	Override Config7.IVAD bit for CPU5/VPE3
config7IVAD_CPU6_VPE0	Boolean	Override Config7.IVAD bit for CPU6/VPE0
config7IVAD_CPU6_VPE1	Boolean	Override Config7.IVAD bit for CPU6/VPE1
config7IVAD_CPU6_VPE2	Boolean	Override Config7.IVAD bit for CPU6/VPE2
config7IVAD_CPU6_VPE3	Boolean	Override Config7.IVAD bit for CPU6/VPE3
config7IVAD_CPU7_VPE0	Boolean	Override Config7.IVAD bit for CPU7/VPE0
config7IVAD_CPU7_VPE1	Boolean	Override Config7.IVAD bit for CPU7/VPE1
config7IVAD_CPU7_VPE2	Boolean	Override Config7.IVAD bit for CPU7/VPE2

config7IVAD_CPU7_VPE3	Boolean	Override Config7.IVAD bit for CPU7/VPE3
config7RPS_CPU0_VPE0	Boolean	Override Config7.RPS bit for CPU0/VPE0
config7RPS_CPU0_VPE1	Boolean	Override Config7.RPS bit for CPU0/VPE1
config7RPS_CPU0_VPE2	Boolean	Override Config7.RPS bit for CPU0/VPE2
config7RPS_CPU0_VPE3	Boolean	Override Config7.RPS bit for CPU0/VPE3
config7RPS_CPU1_VPE0	Boolean	Override Config7.RPS bit for CPU1/VPE0
config7RPS_CPU1_VPE1	Boolean	Override Config7.RPS bit for CPU1/VPE1
config7RPS_CPU1_VPE2	Boolean	Override Config7.RPS bit for CPU1/VPE2
config7RPS_CPU1_VPE3	Boolean	Override Config7.RPS bit for CPU1/VPE3
config7RPS_CPU2_VPE0	Boolean	Override Config7.RPS bit for CPU2/VPE0
config7RPS_CPU2_VPE1	Boolean	Override Config7.RPS bit for CPU2/VPE1
config7RPS_CPU2_VPE2	Boolean	Override Config7.RPS bit for CPU2/VPE2
config7RPS_CPU2_VPE3	Boolean	Override Config7.RPS bit for CPU2/VPE3
config7RPS_CPU3_VPE0	Boolean	Override Config7.RPS bit for CPU3/VPE0
config7RPS_CPU3_VPE1	Boolean	Override Config7.RPS bit for CPU3/VPE1
config7RPS_CPU3_VPE2	Boolean	Override Config7.RPS bit for CPU3/VPE2
config7RPS_CPU3_VPE3	Boolean	Override Config7.RPS bit for CPU3/VPE3
config7RPS_CPU4_VPE0	Boolean	Override Config7.RPS bit for CPU4/VPE0
config7RPS_CPU4_VPE1	Boolean	Override Config7.RPS bit for CPU4/VPE1
config7RPS_CPU4_VPE2	Boolean	Override Config7.RPS bit for CPU4/VPE2
config7RPS_CPU4_VPE3	Boolean	Override Config7.RPS bit for CPU4/VPE3
config7RPS_CPU5_VPE0	Boolean	Override Config7.RPS bit for CPU5/VPE0
config7RPS_CPU5_VPE1	Boolean	Override Config7.RPS bit for CPU5/VPE1
config7RPS_CPU5_VPE2	Boolean	Override Config7.RPS bit for CPU5/VPE2
config7RPS_CPU5_VPE3	Boolean	Override Config7.RPS bit for CPU5/VPE3
config7RPS_CPU6_VPE0	Boolean	Override Config7.RPS bit for CPU6/VPE0
config7RPS_CPU6_VPE1	Boolean	Override Config7.RPS bit for CPU6/VPE1
config7RPS_CPU6_VPE2	Boolean	Override Config7.RPS bit for CPU6/VPE2
config7RPS_CPU6_VPE3	Boolean	Override Config7.RPS bit for CPU6/VPE3
config7RPS_CPU7_VPE0	Boolean	Override Config7.RPS bit for CPU7/VPE0
config7RPS_CPU7_VPE1	Boolean	Override Config7.RPS bit for CPU7/VPE1
config7RPS_CPU7_VPE2	Boolean	Override Config7.RPS bit for CPU7/VPE2
config7RPS_CPU7_VPE3	Boolean	Override Config7.RPS bit for CPU7/VPE3
statusFR	Boolean	Override power on value in Status.FR (Floating point register mode)
fcsrABS2008	Boolean	Override FCSR.ABS2008 (ABS/NEG compliant with IEEE 754-2008)
fcsrNaN2008	Boolean	Override FCSR.NAN2008 (QNaN/SNaN encodings match IEEE 754-2008 recommendation)
numMaarRegs	Uns32	Override number of MAAR registers (must be even)
srsconf0SRS1	Uns32	Override the SRS1 field in SRSConf0 register
srsconf0SRS2	Uns32	Override the SRS2 field in SRSConf0 register
srsconf0SRS3	Uns32	Override the SRS3 field in SRSConf0 register
wiredLimit	Uns32	Override Limit field of the Wired register
wiredLimitBits	Uns32	Override width of Limit field of the Wired register
wiredWiredBits	Uns32	Override width of Wired field of the Wired register
cdmmBaseCI	Boolean	Override CDMMBase.CI
parityEnable	Uns32	Specify error detection support: 0 - none; 1 - parity; 2 - ECC
useMpTb	Boolean	Override Use of multi-processor test bench
ExceptionBase	Uns32	Specify the BEV Exception Base address. (use GCR.Cx_RESET_BASE on CMP processors)
UseExceptionBase	Boolean	Set to one to use ExceptionBase[29:12] as the corresponding BEV address bits

firstBEVExceptionBaseMaskBit	Uns32	Specify LSB position of GCR.Cx.RESET_EXT.BASE.BEVExceptionBaseMask field. Only used when SegCtl present
EVAReset	Boolean	Set to one to reset into non-legacy address map and BEV location. Only used when non-CMP and SegCtl present
ExceptionBaseMask	Uns32	Specify the ExceptionBaseMask value used for bits [27:firstBEVExceptionBaseMaskBit]. Only used when non-CMP and SegCtl present
ExceptionBasePA	Uns32	Bits [35:29] of the physical address for the BEV overlays. Only used when non-CMP and SegCtl present
l1BufferCache	Boolean	L1 Buffer Cache
GCU_EX	Boolean	CMP system only: GCR custom block present
GIC_EX	Boolean	CMP system only: GIC unit present
CPC_EX	Boolean	CMP system only: CPC unit present
TIMER_ROUTABLE	Boolean	CMP system only: cpu timer interrupt routable within cluster
SWINT_ROUTABLE	Boolean	CMP system only: software interrupt routable within cluster
PERFCNT_ROUTABLE	Boolean	CMP system only: performance counter interrupt routable within cluster
FDC_ROUTABLE	Boolean	CMP system only: fast debug channel interrupt routable within cluster
GCR_PCORES	Uns32	CMP system only: override GCR.CONFIG.PCORES (number of cores-1)
GCR_ADDR_REGIONS	Uns32	CMP system only: override GCR.CONFIG.ADDR_REGIONS (number of MMIO address regions)
GCR_NUMAUX	Uns32	CMP system only: override GCR.CONFIG.NUMAUX (number of auxiliary memory ports)
GCR_BASE	Uns32	CMP system only: override GCR.BASE.GCR_BASE (default GCR register address)
GCR_MINOR_REV	Uns32	CMP system only: override GCR.REV.MINOR_REV
GCR_MAJOR_REV	Uns32	CMP system only: override GCR.REV.MAJOR_REV
GCR_CACHE_MINOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MINOR_REV
GCR_CACHE_MAJOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MAJOR_REV
GCR_L2_ASSOC	Uns32	CMP system only: override GCR.L2.CONFIG.ASSOC
GCR_L2_SET_SIZE	Uns32	CMP system only: override GCR.L2.CONFIG.SET_SIZE
GCR_SYS_CONFIG2_MAX_VP_WIDTH	Uns32	CMP system only: override GCR.SYS_CONFIG2.MAX_VP_WIDTH
GCR_IOCUI1_MINOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MINOR_REV
GCR_IOCUI1_MAJOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MAJOR_REV
GIC_NUMINTERRUPTS	Uns32	CMP system only: override GIC.SH.CONFIG.NUMINTERRUPTS
GIC_COUNTBITS	Uns32	CMP system only: override GIC.SH.CONFIG.COUNTBITS

GIC.MINOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MINOR.REV
GIC.MAJOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MAJOR.REV
GIC.NUM.TEAMS	Uns32	CMP system only: override GIC.SH.DBG.CONFIG.NUM.TEAMS
GIC.TRIG.RESET	Uns32	CMP system only: Zero value of GIC.SH.TRIG_[31_0, 63_32]
GIC.PVPES	Uns32	CMP system only: override GIC.SH.CONFIG.PVPE
CPC.MICROSTEP	Uns32	CMP system only: override CPC.SEQDEL.MICROSTEP
CPC.RAILDELAY	Uns32	CMP system only: override CPC.RAIL.RAILDELAY
CPC.RESETLEN	Uns32	CMP system only: override CPC.RESETLEN.RESETLEN
CPC.MINOR.REV	Uns32	CMP system only: override CPC.REVISION.MINOR.REV
CPC.MAJOR.REV	Uns32	CMP system only: override CPC.REVISION.MAJOR.REV
GIC.SH.GID.CONFIG31_0	Uns32	CMP system only: override GIC.SH.GID.CONFIG[31_0]
GIC.SH.GID.CONFIG63_32	Uns32	CMP system only: override GIC.SH.GID.CONFIG[63_32]
GIC.SH.GID.CONFIG95_64	Uns32	CMP system only: override GIC.SH.GID.CONFIG[95_64]
GIC.SH.GID.CONFIG127_96	Uns32	CMP system only: override GIC.SH.GID.CONFIG[127_96]
GIC.SH.GID.CONFIG159_128	Uns32	CMP system only: override GIC.SH.GID.CONFIG[159_128]
GIC.SH.GID.CONFIG191_160	Uns32	CMP system only: override GIC.SH.GID.CONFIG[191_160]
GIC.SH.GID.CONFIG223_192	Uns32	CMP system only: override GIC.SH.GID.CONFIG[223_192]
GIC.SH.GID.CONFIG255_224	Uns32	CMP system only: override GIC.SH.GID.CONFIG[255_224]
gicVirtualVPNum_CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
gicVirtualVPNum_CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
gicVirtualVPNum_CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
gicVirtualVPNum_CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
gicVirtualVPNum_CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
gicVirtualVPNum_CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
gicVirtualVPNum_CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
gicVirtualVPNum_CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
gicVirtualVPNum_CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
gicVirtualVPNum_CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1

gicVirtualVPNum_CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
gicVirtualVPNum_CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
gicVirtualVPNum_CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
gicVirtualVPNum_CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
gicVirtualVPNum_CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
gicVirtualVPNum_CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
gicVirtualVPNum_CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
gicVirtualVPNum_CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
gicVirtualVPNum_CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
gicVirtualVPNum_CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
gicVirtualVPNum_CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
gicVirtualVPNum_CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
gicVirtualVPNum_CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2
gicVirtualVPNum_CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
gicVirtualVPNum_CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
gicVirtualVPNum_CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
gicVirtualVPNum_CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
gicVirtualVPNum_CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
gicVirtualVPNum_CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
gicVirtualVPNum_CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
gicVirtualVPNum_CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
gicVirtualVPNum_CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
GCR_C0_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 0
GCR_C1_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 1
GCR_C2_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 2
GCR_C3_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 3
GCR_C4_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 4
GCR_C5_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 5

GCR_C6.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 6
GCR_C7.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 7
GCR_C8.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 8
GCR_C9.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 9
GCR_C0.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 0
GCR_C1.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 1
GCR_C2.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 2
GCR_C3.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 3
GCR_C4.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 4
GCR_C5.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 5
GCR_C6.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 6
GCR_C7.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 7
GCR_C8.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 8
GCR_C9.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 9
CPC_C0.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 0
CPC_C1.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 1
CPC_C2.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 2
CPC_C3.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 3
CPC_C4.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 4
CPC_C5.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 5
CPC_C6.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 6
CPC_C7.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 7
CPC_C8.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 8
CPC_C9.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 9
EIC.OPTION	Uns32	Override the external interrupt controller EIC.OPTION
hasImpl17	Boolean	Enable read/write of Impl17 bit in Status register
hasImpl16	Boolean	Enable read/write of Impl16 bit in Status register
ISPRAM.SIZE	Uns32	Encoded size of the ISPRAM region ( $\log_2(\text{ISPRAM size in bytes}) - 11$ )
ISPRAM.BASE	Uns64	Starting physical address of the ISPRAM region
ISPRAM.ENABLE	Boolean	Set the enable bit of the ISPRAM region's tag (used to enable the ISPRAM region prior to reset)
ISPRAM.FILE	String	Load a MIPS hex file into the ISPRAM region prior to reset
DSPRAM.SIZE	Uns32	Encoded size of the DSPRAM region ( $\log_2(\text{DSPRAM size in bytes}) - 11$ )
DSPRAM.BASE	Uns64	Starting physical address of the DSPRAM region
DSPRAM.ENABLE	Boolean	Set the enable bit of the DSPRAM region's tag (used to enable the DSPRAM region prior to reset)
DSPRAM.PRESENT	Boolean	DSPRAM is present with SAAR

USPRAM_SIZE	Uns32	Encoded size of the USPRAM region ( $\log_2(\text{<USPRAM size in bytes>}) - 11$ )
USPRAM_BASE	Uns64	Starting physical address of the USPRAM region
USPRAM_ENABLE	Boolean	Set the enable bit of the USPRAM region's tag (used to enable the USPRAM region prior to reset)
USPRAM_FILE	String	Load a MIPS hex file into the USPRAM region prior to reset
misalignedDataException	Enumeration	Select misaligned data access exception signaling: never, checkCCA or always (never, checkCCA or always)
commitTlbwErr	Boolean	Commit TLBWI/TLBRI on ECC; in MIPS_DV_MODE only

Table 8.1: Parameters that can be set in: CMP

Name	Type	Description
endian	Endian	Model endian
cacheenable	Enumeration	Select cache model mode (default, tag or full)
cachedebug	Uns32	Cache debug flags
cacheextbiuinfo	Pointer	Pointer to platform-provided BIU cache info structure
mipsHexFile	String	Load a MIPS hex file (test-mode)
IMPERAS_MIPS_AVP_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes (specific for AVP test termination)
cacheIndexBypassTLB	Boolean	When set, cache index ops do not generate TLB exceptions
MIPS_TRACE	Boolean	Enable MIPS-format trace output
gprNames	Boolean	Disassemble the register names from the default ABI instead of register numbers for MIPS-format trace output
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, accesses of memory not defined by platform will cause bus error exceptions
fixedMMU	Boolean	Override the MMU type to fixed mapping when true (sets Config.MT=3, Config.KU/K23=2 and Config1.MMUSizeM1=0)
fixedDbgRegSize	Boolean	Enable applications to debug on P5600 with GDB version 2015.06-05 and prior
removeDSP	Boolean	Override the DSP-present configuration when true (sets Config3.DSPP/DSP2P=0)
removeCMP	Boolean	Override the CMP-Present configuration when true (sets Config3.CMGCR and GCR_BASE to 0)
removeFP	Boolean	Override the FP-Present configuration when true (sets Config1.FP to 0)
removeFTLB	Boolean	Override the FTLBEn configuration when true (disable FTLB)
isISA	Boolean	Enable to specify ISA model (reset address from ELF, all coprocessors enabled)
hiddenTLBentries	Boolean	Deprecated - Instead set config1MMUSizeM1 to maximum value to improve performance
perfCounters	Uns32	Performance Counters
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)

ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC implementation (MT cores only)
ITCFIFODepth	Uns32	Specify ITC FIFO cell depth. By default supports 4.
ITCEmptyOnReset	Boolean	Specify ITC E/F cells reset to a known empty state.
MTFPU	Uns32	Enable multi-threaded FPU (1:old mttc1 behavior, 2:new mttc1 behavior)
supportDenormals	Boolean	Enable to specify that the FPU supports denormal operands and results
VPE0MaxTC	Uns32	Specifies the maximum TCs initially on VPE0. Ignored if less than two VPEs configured.
VPE1MaxTC	Uns32	Specifies the maximum TCs initially on VPE1. Ignored if less than three VPEs configured.
mpuRegions	Uns32	Number of regions for memory protection unit
mpuType	Uns32	Type of MPU implementation
mpuEnable	Boolean	Enable MPU2 segment control at reset
mpuSegment0	Uns32	Attributes for segment 0 in MPU2 SegmentControl_0 register
mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 register
mpuSegment2	Uns32	Attributes for segment 2 in MPU2 SegmentControl_0 register
mpuSegment3	Uns32	Attributes for segment 3 in MPU2 SegmentControl_0 register
mpuSegment4	Uns32	Attributes for segment 4 in MPU2 SegmentControl_1 register
mpuSegment5	Uns32	Attributes for segment 5 in MPU2 SegmentControl_1 register
mpuSegment6	Uns32	Attributes for segment 6 in MPU2 SegmentControl_1 register
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 register
mpuSegment8	Uns32	Attributes for segment 8 in MPU2 SegmentControl_2 register
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 register
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 register
mpuSegment11	Uns32	Attributes for segment 11 in MPU2 SegmentControl_2 register
mpuSegment12	Uns32	Attributes for segment 12 in MPU2 SegmentControl_3 register
mpuSegment13	Uns32	Attributes for segment 13 in MPU2 SegmentControl_3 register
mpuSegment14	Uns32	Attributes for segment 14 in MPU2 SegmentControl_3 register
mpuSegment15	Uns32	Attributes for segment 15 in MPU2 SegmentControl_3 register
mvpconf0vpe	Uns32	Override MVPConf0.PVPE
tcDisable	Uns32	Number of disabled TCs
vpeDisable	Uns32	Number of disabled VPEs
mvpconf0tc	Uns32	Override MVPConf0.PTC
mvpconf0pcp	Boolean	Override MVPConf0.PCP
mvpconf0tcp	Boolean	Override MVPConf0.TCP
mvpconf1c1f	Boolean	Override MVPConf.C1F
mvpcontrolPolicyMode	Boolean	Override MVPControl.POLICY_MODE



hasFDC	Uns32	Specify the size of Fast Debug Channel register block
licenseWarningDays	Uns32	Specify the number of days before a license expires to start issuing a warning. 0 disables warnings.
MIPS_UHI	Boolean	Enable MIPS-Unified Hosting interface
mipsUhiArgs	String	Specifies UHI arguments string separated by spaces
mipsUhiJail	String	Specifies UHI jailroot
MIPS_DV_MODE	Boolean	Enable Design Verification mode
MIPS_MAGIC_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes
enableTrickbox	Boolean	Enable trickbox addresses (specific for AVP)
fpuexcdisable	Boolean	Disable FPU exceptions
TRU_PRESENT	Boolean	Disable or Enable based on TRU presence to control certain fields (e.x.perfCtl.PCTD
ucLLwordsLocked	Uns32	Numbers of words (4 byte) an uncached LL is locking. Maximum: 4K
FUSA	Boolean	Enable Functional Safety
CPC_FAULT_SUPPORTED	Uns32	Specify the value for Functional Safety Supported register
CPC_FAULT_ENABLE	Uns32	Specify the value for Functional Safety Enable register
cop2Bits	Uns32	Specifies width in bits of COP2 registers (32 or 64)
cop2FileName	String	Specifies COP2 dynamically-loaded object (.so/.dll) defining COP2 instructions
udiConfig	Int32	Specifies UDI configuration attribute
udiFileName	String	Specifies UDI dynamically-loaded object (.so/.dll) defining UDI instructions
vectoredinterrupt	Boolean	Enables vectored interrupts (sets Config3 VInt)
externalinterrupt	Boolean	Enables the use of an external interrupt controller (sets Config3 VEIC)
config3VEIC_VPE0	Boolean	Enables an external interrupt controller on VPE0 (sets Config3 VEIC)
config3VEIC_VPE1	Boolean	Enables an external interrupt controller on VPE1 (sets Config3 VEIC)
config3VEIC_VPE2	Boolean	Enables an external interrupt controller on VPE2 (sets Config3 VEIC)
config3VEIC_VPE3	Boolean	Enables an external interrupt controller on VPE3 (sets Config3 VEIC)
rootFixedMMU	Boolean	Override the root MMU type to fixed mapping when true (sets Config.MT=3 and Config.KU/K23=2)
rootMMUSizeM1	Uns32	Override the root MMUSizeM1 field in Config1 register (number of MMU entries-1)
srscctlHSS	Uns32	Override the HSS field in SRSCtl register (number of shadow register sets)
firPS	Uns32	Override the PS field in FIR register
firHas2008	Uns32	Override the Has2008 field in FIR register
usePreciseFpu	Uns32	Use the precise Floating Point emulation
simulateLite	Enumeration	Run Simulation with optimization. There are several optimizations which could be combined (NONE, FS, MA or FSMA)
pridCompanyOptions	Uns32	Override the Company Options field in PRId register
pridRevision	Uns32	Override the Revision field in PRId register
globalClusterNum	Uns32	Override the ClusterNum field in GlobalNumber register
intctlIPTI	Uns32	Override the IPTI field in IntCtl register

intctlIPFDC	Uns32	Override the IPFDC field in IntCtl register
intctlIPPCI	Uns32	Override the IPPCI field in IntCtl register
numWatch	Uns32	Specify number of WatchLo/WatchHi register pairs
maxVP	Uns32	Specify maximum number of Virtual Processors present in a core
numVP	Uns32	Specify number of Virtual Processors to be present
numVPtoStart	Uns32	Specify number of Virtual Processors to be started
sharedTLBindex	Uns32	Specify first shared TLB Index between Virtual Cores
xconfigSpecified	Boolean	True if the configuration comes from a valid xconfig file
intctlIPTI.CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
intctlIPTI.CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
intctlIPTI.CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
intctlIPTI.CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
intctlIPTI.CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
intctlIPTI.CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
intctlIPTI.CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
intctlIPTI.CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
intctlIPTI.CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
intctlIPTI.CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1
intctlIPTI.CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
intctlIPTI.CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
intctlIPTI.CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
intctlIPTI.CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
intctlIPTI.CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
intctlIPTI.CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
intctlIPTI.CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
intctlIPTI.CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
intctlIPTI.CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
intctlIPTI.CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
intctlIPTI.CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
intctlIPTI.CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
intctlIPTI.CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2

intctlIPTI.CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
intctlIPTI.CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
intctlIPTI.CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
intctlIPTI.CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
intctlIPTI.CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
intctlIPTI.CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
intctlIPTI.CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
intctlIPTI.CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
intctlIPTI.CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
intctlIPFDC_CPU0_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP0
intctlIPFDC_CPU0_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP1
intctlIPFDC_CPU0_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP2
intctlIPFDC_CPU0_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP3
intctlIPFDC_CPU1_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP0
intctlIPFDC_CPU1_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP1
intctlIPFDC_CPU1_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP2
intctlIPFDC_CPU1_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP3
intctlIPFDC_CPU2_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP0
intctlIPFDC_CPU2_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP1
intctlIPFDC_CPU2_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP2
intctlIPFDC_CPU2_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP3
intctlIPFDC_CPU3_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP0
intctlIPFDC_CPU3_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP1
intctlIPFDC_CPU3_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP2
intctlIPFDC_CPU3_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP3
intctlIPFDC_CPU4_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP0
intctlIPFDC_CPU4_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP1
intctlIPFDC_CPU4_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP2

intctlIPFDC_CPU4_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP3
intctlIPFDC_CPU5_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP0
intctlIPFDC_CPU5_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP1
intctlIPFDC_CPU5_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP2
intctlIPFDC_CPU5_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP3
intctlIPFDC_CPU6_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP0
intctlIPFDC_CPU6_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP1
intctlIPFDC_CPU6_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP2
intctlIPFDC_CPU6_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP3
intctlIPFDC_CPU7_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP0
intctlIPFDC_CPU7_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP1
intctlIPFDC_CPU7_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP2
intctlIPFDC_CPU7_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP3
intctlIPPCI_CPU0_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP0
intctlIPPCI_CPU0_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP1
intctlIPPCI_CPU0_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP2
intctlIPPCI_CPU0_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP3
intctlIPPCI_CPU1_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP0
intctlIPPCI_CPU1_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP1
intctlIPPCI_CPU1_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP2
intctlIPPCI_CPU1_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP3
intctlIPPCI_CPU2_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP0
intctlIPPCI_CPU2_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP1
intctlIPPCI_CPU2_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP2
intctlIPPCI_CPU2_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP3
intctlIPPCI_CPU3_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP0
intctlIPPCI_CPU3_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP1
intctlIPPCI_CPU3_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP2

intctlIPPCI.CPU3_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP3
intctlIPPCI.CPU4_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP0
intctlIPPCI.CPU4_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP1
intctlIPPCI.CPU4_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP2
intctlIPPCI.CPU4_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP3
intctlIPPCI.CPU5_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP0
intctlIPPCI.CPU5_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP1
intctlIPPCI.CPU5_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP2
intctlIPPCI.CPU5_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP3
intctlIPPCI.CPU6_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP0
intctlIPPCI.CPU6_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP1
intctlIPPCI.CPU6_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP2
intctlIPPCI.CPU6_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP3
intctlIPPCI.CPU7_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP0
intctlIPPCI.CPU7_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP1
intctlIPPCI.CPU7_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP2
intctlIPPCI.CPU7_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP3
segcfg0PA	Uns32	Set CFG0.PA field of SegCtl0 register
segcfg1PA	Uns32	Set CFG1.PA field of SegCtl0 register
segcfg2PA	Uns32	Set CFG2.PA field of SegCtl1 register
segcfg3PA	Uns32	Set CFG3.PA field of SegCtl1 register
segcfg4PA	Uns32	Set CFG4.PA field of SegCtl2 register
segcfg5PA	Uns32	Set CFG5.PA field of SegCtl2 register
segcfg0AM	Uns32	Set CFG0.AM field of SegCtl0 register
segcfg1AM	Uns32	Set CFG1.AM field of SegCtl0 register
segcfg2AM	Uns32	Set CFG2.AM field of SegCtl1 register
segcfg3AM	Uns32	Set CFG3.AM field of SegCtl1 register
segcfg4AM	Uns32	Set CFG4.AM field of SegCtl2 register
segcfg5AM	Uns32	Set CFG5.AM field of SegCtl2 register
segcfg0EU	Uns32	Set CFG0.EU field of SegCtl0 register
segcfg1EU	Uns32	Set CFG1.EU field of SegCtl0 register
segcfg2EU	Uns32	Set CFG2.EU field of SegCtl1 register
segcfg3EU	Uns32	Set CFG3.EU field of SegCtl1 register
segcfg4EU	Uns32	Set CFG4.EU field of SegCtl2 register
segcfg5EU	Uns32	Set CFG5.EU field of SegCtl2 register
segcfg0C	Uns32	Set CFG0.C field of SegCtl0 register
segcfg1C	Uns32	Set CFG1.C field of SegCtl0 register
segcfg2C	Uns32	Set CFG2.C field of SegCtl1 register
segcfg3C	Uns32	Set CFG3.C field of SegCtl1 register

segcfg4C	Uns32	Set CFG4.C field of SegCtl2 register
segcfg5C	Uns32	Set CFG5.C field of SegCtl2 register
cdmmSize	Uns32	Override the cdmmSize reset value
configAR	Uns32	Enables R6 support
configBM	Uns32	Override the BM field in Config register (burst mode)
configDSP	Boolean	Override Config.DSP (data scratchpad RAM present)
configISP	Boolean	Override Config.ISP (instruction scratchpad RAM present)
configK0	Uns32	Override power on value of Config.K0 (set Kseg0 cacheability)
configKU	Uns32	Override power on value of Config.KU (set Useg cacheability)
configK23	Uns32	Override power on value of Config.K23 (set Kseg23 cacheability)
configMDU	Boolean	Override Config.MDU (iterative multiply/divide unit)
configMM	Boolean	Override Config.MM (merging mode for write)
configMT	Uns32	Override Config.MT
configSB	Boolean	Override Config.SB (simple bus transfers only)
configBCP	Boolean	Override Config.BCP (Buffer Cache Present)
MIPS16eASE	Boolean	Override Config1.CA (enables the MIPS16e ASE)
config1DA	Uns32	Override Config1.DA (Dcache associativity)
config1DL	Uns32	Override Config1.DL (Dcache line size)
config1DS	Uns32	Override Config1.DS (Dcache sets per way)
config1EP	Boolean	Override Config1.EP (EJTag present)
config1IA	Uns32	Override Config1.IA (Icache associativity)
config1IL	Uns32	Override Config1.IL (Icache line size)
config1IS	Uns32	Override Config1.IS (Icache sets per way)
config1MMUSizeM1	Uns32	Override Config1.MMUSizeM1 (number of MMU entries-1)
config1MMUSizeM1_VPE1	Uns32	Override Config1.MMUSizeM1 for VPE1
config1MMUSizeM1_VPE2	Uns32	Override Config1.MMUSizeM1 for VPE2
config1MMUSizeM1_VPE3	Uns32	Override Config1.MMUSizeM1 for VPE3
config1WR	Boolean	Override Config1.WR (watchpoint registers present)
config1PC	Boolean	Override Config1.PC (Performance Counters present)
config1C2	Boolean	Override Config1.C2 (Coprocessor 2 present)
config2SU	Uns32	Override the SU field in Config2 register
config2SS	Uns32	Override the SS field in Config2 register
config2SL	Uns32	Override the SL field in Config2 register
config2SA	Uns32	Override the SA field in Config2 register
config3BI	Boolean	Override Config3.BI
config3BP	Boolean	Override Config3.BP
config3CDMM	Boolean	Override Config3.CDMM
config3CTXTC	Boolean	Override Config3.CTXTC
config3DSPP	Boolean	Override Config3.DSPP
config3DSP2P	Boolean	Override Config3.DSP2P
config3IPLW	Uns32	Override Config3.IPLW
config3ISA	Uns32	Override Config3.ISA
config3ISAOnExc	Boolean	Override Config3.ISAOnExc
config3ITL	Boolean	Override Config3.ITL
config3LPA	Boolean	Override Config3.LPA
config3MCU	Boolean	Override Config3.MCU

config3MMAR	Uns32	Override Config3.MMAR
config3RXI	Boolean	Override Config3.RXI
config3SC	Boolean	Override Config3.SC
config3ULRI	Boolean	Override Config3.ULRI
config3VZ	Boolean	Override Config3.VZ
config3MSAP	Boolean	Override Config3.MSAP
config3CMGCR	Boolean	Override the CMGCR field in Config3 register
config3SP	Boolean	Override the SP field in Config3 register
config3TL	Uns32	Override the TL field in Config3 register
config3PW	Boolean	Override the PW field in Config3 register
config4AE	Boolean	Override Config4.AE
config4IE	Uns32	Override Config4.IE
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation depends on MMUExtDef value)
config4MMUExtDef	Uns32	Override Config4.MMUExtDef
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt
config4KScrExist	Uns32	Override Config4.KScrExist
config5EVA	Boolean	Override Config5.EVA
config5LLB	Boolean	Override Config5.LLB (LLAddr supports LLbit)
config5MRP	Boolean	Override Config5.MRP (Maar Present)
config5NFExists	Boolean	Override Config5.NFExists
mips32Macro	Boolean	Enables the MIPS32 SAVE and RESTORE macro instructions. Ignored if Config5.CA2 is not set)
config5MSAEn	Boolean	Override Config5.MSAEn
config5MVH	Boolean	Override Config5.MVH (enable MTHC0 and MFHC0 instructions)
config5DEC	Boolean	Override Config5.DEC (to test Dual Endian Capability)
config5GI	Uns32	Override Config5.GI (enable GINV)
config5CRCP	Boolean	Override Config5.CRCP (CRCP Present)
config5VP	Boolean	Override Config5.VP
config6FTLBEEn	Boolean	Override power on value of Config6.FTLBEEn
config7AR	Boolean	Override Config7.AR (Alias removed Data cache)
config7DCIDX_MODE	Uns32	Override Config7.DCIDX_MODE
config7HCI	Boolean	Override Config7.HCI (Hardware Cache Initialization)
config7IAR	Boolean	Override Config7.IAR (Alias removed Instruction cache)
config7WII	Boolean	Override Config7.WII (wait IE/IXMT ignore)
config7ES	Uns32	Override the ES field in Config7 register (Externalize sync)
config7WR	Boolean	Override Config7[31] bit (Alternative implementation of Watch registers)
config7FPR	Boolean	Override Config7.FPR (one-half FPU clock ratio)
config7USP	Uns32	Override Config7.USP (USPRAM enable)
config7BTLM	Boolean	Override Config7.BTLM bit
config7BusSlp	Boolean	Override Config7.BusSlp bit
config7IVAD	Boolean	Override Config7.IVAD bit
config7RPS	Boolean	Override Config7.RPS bit
config7IAR_CPU0_VPE0	Boolean	Override Config7.IAR bit for CPU0/VPE0
config7IAR_CPU0_VPE1	Boolean	Override Config7.IAR bit for CPU0/VPE1
config7IAR_CPU0_VPE2	Boolean	Override Config7.IAR bit for CPU0/VPE2
config7IAR_CPU0_VPE3	Boolean	Override Config7.IAR bit for CPU0/VPE3
config7IAR_CPU1_VPE0	Boolean	Override Config7.IAR bit for CPU1/VPE0
config7IAR_CPU1_VPE1	Boolean	Override Config7.IAR bit for CPU1/VPE1
config7IAR_CPU1_VPE2	Boolean	Override Config7.IAR bit for CPU1/VPE2

config7IAR_CPU1_VPE3	Boolean	Override Config7.IAR bit for CPU1/VPE3
config7IAR_CPU2_VPE0	Boolean	Override Config7.IAR bit for CPU2/VPE0
config7IAR_CPU2_VPE1	Boolean	Override Config7.IAR bit for CPU2/VPE1
config7IAR_CPU2_VPE2	Boolean	Override Config7.IAR bit for CPU2/VPE2
config7IAR_CPU2_VPE3	Boolean	Override Config7.IAR bit for CPU2/VPE3
config7IAR_CPU3_VPE0	Boolean	Override Config7.IAR bit for CPU3/VPE0
config7IAR_CPU3_VPE1	Boolean	Override Config7.IAR bit for CPU3/VPE1
config7IAR_CPU3_VPE2	Boolean	Override Config7.IAR bit for CPU3/VPE2
config7IAR_CPU3_VPE3	Boolean	Override Config7.IAR bit for CPU3/VPE3
config7IAR_CPU4_VPE0	Boolean	Override Config7.IAR bit for CPU4/VPE0
config7IAR_CPU4_VPE1	Boolean	Override Config7.IAR bit for CPU4/VPE1
config7IAR_CPU4_VPE2	Boolean	Override Config7.IAR bit for CPU4/VPE2
config7IAR_CPU4_VPE3	Boolean	Override Config7.IAR bit for CPU4/VPE3
config7IAR_CPU5_VPE0	Boolean	Override Config7.IAR bit for CPU5/VPE0
config7IAR_CPU5_VPE1	Boolean	Override Config7.IAR bit for CPU5/VPE1
config7IAR_CPU5_VPE2	Boolean	Override Config7.IAR bit for CPU5/VPE2
config7IAR_CPU5_VPE3	Boolean	Override Config7.IAR bit for CPU5/VPE3
config7IAR_CPU6_VPE0	Boolean	Override Config7.IAR bit for CPU6/VPE0
config7IAR_CPU6_VPE1	Boolean	Override Config7.IAR bit for CPU6/VPE1
config7IAR_CPU6_VPE2	Boolean	Override Config7.IAR bit for CPU6/VPE2
config7IAR_CPU6_VPE3	Boolean	Override Config7.IAR bit for CPU6/VPE3
config7IAR_CPU7_VPE0	Boolean	Override Config7.IAR bit for CPU7/VPE0
config7IAR_CPU7_VPE1	Boolean	Override Config7.IAR bit for CPU7/VPE1
config7IAR_CPU7_VPE2	Boolean	Override Config7.IAR bit for CPU7/VPE2
config7IAR_CPU7_VPE3	Boolean	Override Config7.IAR bit for CPU7/VPE3
config7IVAD_CPU0_VPE0	Boolean	Override Config7.IVAD bit for CPU0/VPE0
config7IVAD_CPU0_VPE1	Boolean	Override Config7.IVAD bit for CPU0/VPE1
config7IVAD_CPU0_VPE2	Boolean	Override Config7.IVAD bit for CPU0/VPE2
config7IVAD_CPU0_VPE3	Boolean	Override Config7.IVAD bit for CPU0/VPE3
config7IVAD_CPU1_VPE0	Boolean	Override Config7.IVAD bit for CPU1/VPE0
config7IVAD_CPU1_VPE1	Boolean	Override Config7.IVAD bit for CPU1/VPE1
config7IVAD_CPU1_VPE2	Boolean	Override Config7.IVAD bit for CPU1/VPE2
config7IVAD_CPU1_VPE3	Boolean	Override Config7.IVAD bit for CPU1/VPE3
config7IVAD_CPU2_VPE0	Boolean	Override Config7.IVAD bit for CPU2/VPE0
config7IVAD_CPU2_VPE1	Boolean	Override Config7.IVAD bit for CPU2/VPE1
config7IVAD_CPU2_VPE2	Boolean	Override Config7.IVAD bit for CPU2/VPE2
config7IVAD_CPU2_VPE3	Boolean	Override Config7.IVAD bit for CPU2/VPE3
config7IVAD_CPU3_VPE0	Boolean	Override Config7.IVAD bit for CPU3/VPE0
config7IVAD_CPU3_VPE1	Boolean	Override Config7.IVAD bit for CPU3/VPE1
config7IVAD_CPU3_VPE2	Boolean	Override Config7.IVAD bit for CPU3/VPE2
config7IVAD_CPU3_VPE3	Boolean	Override Config7.IVAD bit for CPU3/VPE3
config7IVAD_CPU4_VPE0	Boolean	Override Config7.IVAD bit for CPU4/VPE0
config7IVAD_CPU4_VPE1	Boolean	Override Config7.IVAD bit for CPU4/VPE1
config7IVAD_CPU4_VPE2	Boolean	Override Config7.IVAD bit for CPU4/VPE2
config7IVAD_CPU4_VPE3	Boolean	Override Config7.IVAD bit for CPU4/VPE3
config7IVAD_CPU5_VPE0	Boolean	Override Config7.IVAD bit for CPU5/VPE0
config7IVAD_CPU5_VPE1	Boolean	Override Config7.IVAD bit for CPU5/VPE1
config7IVAD_CPU5_VPE2	Boolean	Override Config7.IVAD bit for CPU5/VPE2
config7IVAD_CPU5_VPE3	Boolean	Override Config7.IVAD bit for CPU5/VPE3
config7IVAD_CPU6_VPE0	Boolean	Override Config7.IVAD bit for CPU6/VPE0
config7IVAD_CPU6_VPE1	Boolean	Override Config7.IVAD bit for CPU6/VPE1
config7IVAD_CPU6_VPE2	Boolean	Override Config7.IVAD bit for CPU6/VPE2
config7IVAD_CPU6_VPE3	Boolean	Override Config7.IVAD bit for CPU6/VPE3
config7IVAD_CPU7_VPE0	Boolean	Override Config7.IVAD bit for CPU7/VPE0
config7IVAD_CPU7_VPE1	Boolean	Override Config7.IVAD bit for CPU7/VPE1
config7IVAD_CPU7_VPE2	Boolean	Override Config7.IVAD bit for CPU7/VPE2



config7IVAD_CPU7_VPE3	Boolean	Override Config7.IVAD bit for CPU7/VPE3
config7RPS_CPU0_VPE0	Boolean	Override Config7.RPS bit for CPU0/VPE0
config7RPS_CPU0_VPE1	Boolean	Override Config7.RPS bit for CPU0/VPE1
config7RPS_CPU0_VPE2	Boolean	Override Config7.RPS bit for CPU0/VPE2
config7RPS_CPU0_VPE3	Boolean	Override Config7.RPS bit for CPU0/VPE3
config7RPS_CPU1_VPE0	Boolean	Override Config7.RPS bit for CPU1/VPE0
config7RPS_CPU1_VPE1	Boolean	Override Config7.RPS bit for CPU1/VPE1
config7RPS_CPU1_VPE2	Boolean	Override Config7.RPS bit for CPU1/VPE2
config7RPS_CPU1_VPE3	Boolean	Override Config7.RPS bit for CPU1/VPE3
config7RPS_CPU2_VPE0	Boolean	Override Config7.RPS bit for CPU2/VPE0
config7RPS_CPU2_VPE1	Boolean	Override Config7.RPS bit for CPU2/VPE1
config7RPS_CPU2_VPE2	Boolean	Override Config7.RPS bit for CPU2/VPE2
config7RPS_CPU2_VPE3	Boolean	Override Config7.RPS bit for CPU2/VPE3
config7RPS_CPU3_VPE0	Boolean	Override Config7.RPS bit for CPU3/VPE0
config7RPS_CPU3_VPE1	Boolean	Override Config7.RPS bit for CPU3/VPE1
config7RPS_CPU3_VPE2	Boolean	Override Config7.RPS bit for CPU3/VPE2
config7RPS_CPU3_VPE3	Boolean	Override Config7.RPS bit for CPU3/VPE3
config7RPS_CPU4_VPE0	Boolean	Override Config7.RPS bit for CPU4/VPE0
config7RPS_CPU4_VPE1	Boolean	Override Config7.RPS bit for CPU4/VPE1
config7RPS_CPU4_VPE2	Boolean	Override Config7.RPS bit for CPU4/VPE2
config7RPS_CPU4_VPE3	Boolean	Override Config7.RPS bit for CPU4/VPE3
config7RPS_CPU5_VPE0	Boolean	Override Config7.RPS bit for CPU5/VPE0
config7RPS_CPU5_VPE1	Boolean	Override Config7.RPS bit for CPU5/VPE1
config7RPS_CPU5_VPE2	Boolean	Override Config7.RPS bit for CPU5/VPE2
config7RPS_CPU5_VPE3	Boolean	Override Config7.RPS bit for CPU5/VPE3
config7RPS_CPU6_VPE0	Boolean	Override Config7.RPS bit for CPU6/VPE0
config7RPS_CPU6_VPE1	Boolean	Override Config7.RPS bit for CPU6/VPE1
config7RPS_CPU6_VPE2	Boolean	Override Config7.RPS bit for CPU6/VPE2
config7RPS_CPU6_VPE3	Boolean	Override Config7.RPS bit for CPU6/VPE3
config7RPS_CPU7_VPE0	Boolean	Override Config7.RPS bit for CPU7/VPE0
config7RPS_CPU7_VPE1	Boolean	Override Config7.RPS bit for CPU7/VPE1
config7RPS_CPU7_VPE2	Boolean	Override Config7.RPS bit for CPU7/VPE2
config7RPS_CPU7_VPE3	Boolean	Override Config7.RPS bit for CPU7/VPE3
statusFR	Boolean	Override power on value in Status.FR (Floating point register mode)
fcsrABS2008	Boolean	Override FCSR.ABS2008 (ABS/NEG compliant with IEEE 754-2008)
fcsrNaN2008	Boolean	Override FCSR.NAN2008 (QNaN/SNaN encodings match IEEE 754-2008 recommendation)
numMaarRegs	Uns32	Override number of MAAR registers (must be even)
srsconf0SRS1	Uns32	Override the SRS1 field in SRSConf0 register
srsconf0SRS2	Uns32	Override the SRS2 field in SRSConf0 register
srsconf0SRS3	Uns32	Override the SRS3 field in SRSConf0 register
wiredLimit	Uns32	Override Limit field of the Wired register
wiredLimitBits	Uns32	Override width of Limit field of the Wired register
wiredWiredBits	Uns32	Override width of Wired field of the Wired register
cdmmBaseCI	Boolean	Override CDMMBase.CI
parityEnable	Uns32	Specify error detection support: 0 - none; 1 - parity; 2 - ECC
useMpTb	Boolean	Override Use of multi-processor test bench
ExceptionBase	Uns32	Specify the BEV Exception Base address. (use GCR.Cx_RESET_BASE on CMP processors)
UseExceptionBase	Boolean	Set to one to use ExceptionBase[29:12] as the corresponding BEV address bits

firstBEVExceptionBaseMaskBit	Uns32	Specify LSB position of GCR.Cx.RESET_EXT.BASE.BEVExceptionBaseMask field. Only used when SegCtl present
EVAReset	Boolean	Set to one to reset into non-legacy address map and BEV location. Only used when non-CMP and SegCtl present
ExceptionBaseMask	Uns32	Specify the ExceptionBaseMask value used for bits [27:firstBEVExceptionBaseMaskBit]. Only used when non-CMP and SegCtl present
ExceptionBasePA	Uns32	Bits [35:29] of the physical address for the BEV overlays. Only used when non-CMP and SegCtl present
l1BufferCache	Boolean	L1 Buffer Cache
GCU_EX	Boolean	CMP system only: GCR custom block present
GIC_EX	Boolean	CMP system only: GIC unit present
CPC_EX	Boolean	CMP system only: CPC unit present
TIMER_ROUTABLE	Boolean	CMP system only: cpu timer interrupt routable within cluster
SWINT_ROUTABLE	Boolean	CMP system only: software interrupt routable within cluster
PERFCNT_ROUTABLE	Boolean	CMP system only: performance counter interrupt routable within cluster
FDC_ROUTABLE	Boolean	CMP system only: fast debug channel interrupt routable within cluster
GCR_PCORES	Uns32	CMP system only: override GCR.CONFIG.PCORES (number of cores-1)
GCR_ADDR_REGIONS	Uns32	CMP system only: override GCR.CONFIG.ADDR_REGIONS (number of MMIO address regions)
GCR_NUMAUX	Uns32	CMP system only: override GCR.CONFIG.NUMAUX (number of auxiliary memory ports)
GCR_BASE	Uns32	CMP system only: override GCR.BASE.GCR_BASE (default GCR register address)
GCR_MINOR_REV	Uns32	CMP system only: override GCR.REV.MINOR_REV
GCR_MAJOR_REV	Uns32	CMP system only: override GCR.REV.MAJOR_REV
GCR_CACHE_MINOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MINOR_REV
GCR_CACHE_MAJOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MAJOR_REV
GCR_L2_ASSOC	Uns32	CMP system only: override GCR.L2.CONFIG.ASSOC
GCR_L2_SET_SIZE	Uns32	CMP system only: override GCR.L2.CONFIG.SET_SIZE
GCR_SYS_CONFIG2_MAX_VP_WIDTH	Uns32	CMP system only: override GCR.SYS_CONFIG2.MAX_VP_WIDTH
GCR_IOCUI1_MINOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MINOR_REV
GCR_IOCUI1_MAJOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MAJOR_REV
GIC_NUMINTERRUPTS	Uns32	CMP system only: override GIC.SH.CONFIG.NUMINTERRUPTS
GIC_COUNTBITS	Uns32	CMP system only: override GIC.SH.CONFIG.COUNTBITS

GIC.MINOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MINOR.REV
GIC.MAJOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MAJOR.REV
GIC.NUM.TEAMS	Uns32	CMP system only: override GIC.SH.DBG.CONFIG.NUM.TEAMS
GIC.TRIG.RESET	Uns32	CMP system only: Zero value of GIC.SH.TRIG_[31_0, 63_32]
GIC.PVPES	Uns32	CMP system only: override GIC.SH.CONFIG.PVPE
CPC.MICROSTEP	Uns32	CMP system only: override CPC.SEQDEL.MICROSTEP
CPC.RAILDELAY	Uns32	CMP system only: override CPC.RAIL.RAILDELAY
CPC.RESETLEN	Uns32	CMP system only: override CPC.RESETLEN.RESETLEN
CPC.MINOR.REV	Uns32	CMP system only: override CPC.REVISION.MINOR.REV
CPC.MAJOR.REV	Uns32	CMP system only: override CPC.REVISION.MAJOR.REV
GIC.SH.GID.CONFIG31_0	Uns32	CMP system only: override GIC.SH.GID.CONFIG[31_0]
GIC.SH.GID.CONFIG63_32	Uns32	CMP system only: override GIC.SH.GID.CONFIG[63_32]
GIC.SH.GID.CONFIG95_64	Uns32	CMP system only: override GIC.SH.GID.CONFIG[95_64]
GIC.SH.GID.CONFIG127_96	Uns32	CMP system only: override GIC.SH.GID.CONFIG[127_96]
GIC.SH.GID.CONFIG159_128	Uns32	CMP system only: override GIC.SH.GID.CONFIG[159_128]
GIC.SH.GID.CONFIG191_160	Uns32	CMP system only: override GIC.SH.GID.CONFIG[191_160]
GIC.SH.GID.CONFIG223_192	Uns32	CMP system only: override GIC.SH.GID.CONFIG[223_192]
GIC.SH.GID.CONFIG255_224	Uns32	CMP system only: override GIC.SH.GID.CONFIG[255_224]
gicVirtualVPNum_CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
gicVirtualVPNum_CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
gicVirtualVPNum_CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
gicVirtualVPNum_CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
gicVirtualVPNum_CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
gicVirtualVPNum_CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
gicVirtualVPNum_CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
gicVirtualVPNum_CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
gicVirtualVPNum_CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
gicVirtualVPNum_CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1

gicVirtualVPNum_CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
gicVirtualVPNum_CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
gicVirtualVPNum_CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
gicVirtualVPNum_CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
gicVirtualVPNum_CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
gicVirtualVPNum_CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
gicVirtualVPNum_CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
gicVirtualVPNum_CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
gicVirtualVPNum_CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
gicVirtualVPNum_CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
gicVirtualVPNum_CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
gicVirtualVPNum_CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
gicVirtualVPNum_CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2
gicVirtualVPNum_CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
gicVirtualVPNum_CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
gicVirtualVPNum_CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
gicVirtualVPNum_CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
gicVirtualVPNum_CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
gicVirtualVPNum_CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
gicVirtualVPNum_CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
gicVirtualVPNum_CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
gicVirtualVPNum_CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
GCR_C0_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 0
GCR_C1_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 1
GCR_C2_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 2
GCR_C3_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 3
GCR_C4_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 4
GCR_C5_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 5

GCR_C6.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 6
GCR_C7.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 7
GCR_C8.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 8
GCR_C9.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 9
GCR_C0.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 0
GCR_C1.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 1
GCR_C2.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 2
GCR_C3.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 3
GCR_C4.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 4
GCR_C5.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 5
GCR_C6.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 6
GCR_C7.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 7
GCR_C8.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 8
GCR_C9.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 9
CPC_C0.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 0
CPC_C1.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 1
CPC_C2.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 2
CPC_C3.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 3
CPC_C4.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 4
CPC_C5.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 5
CPC_C6.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 6
CPC_C7.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 7
CPC_C8.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 8
CPC_C9.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 9
EIC.OPTION	Uns32	Override the external interrupt controller EIC.OPTION
hasImpl17	Boolean	Enable read/write of Impl17 bit in Status register
hasImpl16	Boolean	Enable read/write of Impl16 bit in Status register
ISPRAM.SIZE	Uns32	Encoded size of the ISPRAM region ( $\log_2(\text{ISPRAM size in bytes}) - 11$ )
ISPRAM.BASE	Uns64	Starting physical address of the ISPRAM region
ISPRAM.ENABLE	Boolean	Set the enable bit of the ISPRAM region's tag (used to enable the ISPRAM region prior to reset)
ISPRAM.FILE	String	Load a MIPS hex file into the ISPRAM region prior to reset
DSPRAM.SIZE	Uns32	Encoded size of the DSPRAM region ( $\log_2(\text{DSPRAM size in bytes}) - 11$ )
DSPRAM.BASE	Uns64	Starting physical address of the DSPRAM region
DSPRAM.ENABLE	Boolean	Set the enable bit of the DSPRAM region's tag (used to enable the DSPRAM region prior to reset)
DSPRAM.PRESENT	Boolean	DSPRAM is present with SAAR

USPRAM_SIZE	Uns32	Encoded size of the USPRAM region ( $\log_2(\text{USPRAM size in bytes}) - 11$ )
USPRAM_BASE	Uns64	Starting physical address of the USPRAM region
USPRAM_ENABLE	Boolean	Set the enable bit of the USPRAM region's tag (used to enable the USPRAM region prior to reset)
USPRAM_FILE	String	Load a MIPS hex file into the USPRAM region prior to reset
misalignedDataException	Enumeration	Select misaligned data access exception signaling: never, checkCCA or always (never, checkCCA or always)
commitTlbwErr	Boolean	Commit TLBWI/TLBRI on ECC; in MIPS_DV_MODE only

Table 8.2: Parameters that can be set in: CPU

Name	Type	Description
endian	Endian	Model endian
cacheenable	Enumeration	Select cache model mode (default, tag or full)
cachedebug	Uns32	Cache debug flags
cacheextbiuinfo	Pointer	Pointer to platform-provided BIU cache info structure
mipsHexFile	String	Load a MIPS hex file (test-mode)
IMPERAS_MIPS_AVP_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes (specific for AVP test termination)
cacheIndexBypassTLB	Boolean	When set, cache index ops do not generate TLB exceptions
MIPS_TRACE	Boolean	Enable MIPS-format trace output
gprNames	Boolean	Disassemble the register names from the default ABI instead of register numbers for MIPS-format trace output
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, accesses of memory not defined by platform will cause bus error exceptions
fixedMMU	Boolean	Override the MMU type to fixed mapping when true (sets Config.MT=3, Config.KU/K23=2 and Config1.MMUSizeM1=0)
fixedDbgRegSize	Boolean	Enable applications to debug on P5600 with GDB version 2015.06-05 and prior
removeDSP	Boolean	Override the DSP-present configuration when true (sets Config3.DSPP/DSP2P=0)
removeCMP	Boolean	Override the CMP-Present configuration when true (sets Config3.CMGCR and GCR_BASE to 0)
removeFP	Boolean	Override the FP-Present configuration when true (sets Config1.FP to 0)
removeFTLB	Boolean	Override the FTLBEn configuration when true (disable FTLB)
isISA	Boolean	Enable to specify ISA model (reset address from ELF, all coprocessors enabled)
hiddenTLBentries	Boolean	Deprecated - Instead set config1MMUSizeM1 to maximum value to improve performance
perfCounters	Uns32	Performance Counters
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)

ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC implementation (MT cores only)
ITCFIFODepth	Uns32	Specify ITC FIFO cell depth. By default supports 4.
ITCEmptyOnReset	Boolean	Specify ITC E/F cells reset to a known empty state.
MTFPU	Uns32	Enable multi-threaded FPU (1:old mttc1 behavior, 2:new mttc1 behavior)
supportDenormals	Boolean	Enable to specify that the FPU supports denormal operands and results
VPE0MaxTC	Uns32	Specifies the maximum TCs initially on VPE0. Ignored if less than two VPEs configured.
VPE1MaxTC	Uns32	Specifies the maximum TCs initially on VPE1. Ignored if less than three VPEs configured.
mpuRegions	Uns32	Number of regions for memory protection unit
mpuType	Uns32	Type of MPU implementation
mpuEnable	Boolean	Enable MPU2 segment control at reset
mpuSegment0	Uns32	Attributes for segment 0 in MPU2 SegmentControl_0 register
mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 register
mpuSegment2	Uns32	Attributes for segment 2 in MPU2 SegmentControl_0 register
mpuSegment3	Uns32	Attributes for segment 3 in MPU2 SegmentControl_0 register
mpuSegment4	Uns32	Attributes for segment 4 in MPU2 SegmentControl_1 register
mpuSegment5	Uns32	Attributes for segment 5 in MPU2 SegmentControl_1 register
mpuSegment6	Uns32	Attributes for segment 6 in MPU2 SegmentControl_1 register
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 register
mpuSegment8	Uns32	Attributes for segment 8 in MPU2 SegmentControl_2 register
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 register
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 register
mpuSegment11	Uns32	Attributes for segment 11 in MPU2 SegmentControl_2 register
mpuSegment12	Uns32	Attributes for segment 12 in MPU2 SegmentControl_3 register
mpuSegment13	Uns32	Attributes for segment 13 in MPU2 SegmentControl_3 register
mpuSegment14	Uns32	Attributes for segment 14 in MPU2 SegmentControl_3 register
mpuSegment15	Uns32	Attributes for segment 15 in MPU2 SegmentControl_3 register
mvpconf0vpe	Uns32	Override MVPConf0.PVPE
tcDisable	Uns32	Number of disabled TCs
vpeDisable	Uns32	Number of disabled VPEs
mvpconf0tc	Uns32	Override MVPConf0.PTC
mvpconf0pcp	Boolean	Override MVPConf0.PCP
mvpconf0tcp	Boolean	Override MVPConf0.TCP
mvpconf1c1f	Boolean	Override MVPConf.C1F
mvpcontrolPolicyMode	Boolean	Override MVPControl.POLICY_MODE

hasFDC	Uns32	Specify the size of Fast Debug Channel register block
licenseWarningDays	Uns32	Specify the number of days before a license expires to start issuing a warning. 0 disables warnings.
MIPS_UHI	Boolean	Enable MIPS-Unified Hosting interface
mipsUhiArgs	String	Specifies UHI arguments string separated by spaces
mipsUhiJail	String	Specifies UHI jailroot
MIPS_DV_MODE	Boolean	Enable Design Verification mode
MIPS_MAGIC_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes
enableTrickbox	Boolean	Enable trickbox addresses (specific for AVP)
fpuexcisable	Boolean	Disable FPU exceptions
TRU_PRESENT	Boolean	Disable or Enable based on TRU presence to control certain fields (e.x.perfCtl.PCTD
ucLLwordsLocked	Uns32	Numbers of words (4 byte) an uncached LL is locking. Maximum: 4K
FUSA	Boolean	Enable Functional Safety
CPC_FAULT_SUPPORTED	Uns32	Specify the value for Functional Safety Supported register
CPC_FAULT_ENABLE	Uns32	Specify the value for Functional Safety Enable register
cop2Bits	Uns32	Specifies width in bits of COP2 registers (32 or 64)
cop2FileName	String	Specifies COP2 dynamically-loaded object (.so/.dll) defining COP2 instructions
udiConfig	Int32	Specifies UDI configuration attribute
udiFileName	String	Specifies UDI dynamically-loaded object (.so/.dll) defining UDI instructions
vectoredinterrupt	Boolean	Enables vectored interrupts (sets Config3 VInt)
externalinterrupt	Boolean	Enables the use of an external interrupt controller (sets Config3 VEIC)
config3VEIC_VPE0	Boolean	Enables an external interrupt controller on VPE0 (sets Config3 VEIC)
config3VEIC_VPE1	Boolean	Enables an external interrupt controller on VPE1 (sets Config3 VEIC)
config3VEIC_VPE2	Boolean	Enables an external interrupt controller on VPE2 (sets Config3 VEIC)
config3VEIC_VPE3	Boolean	Enables an external interrupt controller on VPE3 (sets Config3 VEIC)
rootFixedMMU	Boolean	Override the root MMU type to fixed mapping when true (sets Config.MT=3 and Config.KU/K23=2)
rootMMUSizeM1	Uns32	Override the root MMUSizeM1 field in Config1 register (number of MMU entries-1)
srscctlHSS	Uns32	Override the HSS field in SRSCtl register (number of shadow register sets)
firPS	Uns32	Override the PS field in FIR register
firHas2008	Uns32	Override the Has2008 field in FIR register
usePreciseFpu	Uns32	Use the precise Floating Point emulation
simulateLite	Enumeration	Run Simulation with optimization. There are several optimizations which could be combined (NONE, FS, MA or FSMA)
pridCompanyOptions	Uns32	Override the Company Options field in PRId register
pridRevision	Uns32	Override the Revision field in PRId register
globalClusterNum	Uns32	Override the ClusterNum field in GlobalNumber register
intctlIPTI	Uns32	Override the IPTI field in IntCtl register



intctlIPFDC	Uns32	Override the IPFDC field in IntCtl register
intctlIPPCI	Uns32	Override the IPPCI field in IntCtl register
numWatch	Uns32	Specify number of WatchLo/WatchHi register pairs
maxVP	Uns32	Specify maximum number of Virtual Processors present in a core
numVP	Uns32	Specify number of Virtual Processors to be present
numVPtoStart	Uns32	Specify number of Virtual Processors to be started
sharedTLBindex	Uns32	Specify first shared TLB Index between Virtual Cores
xconfigSpecified	Boolean	True if the configuration comes from a valid xconfig file
intctlIPTI.CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
intctlIPTI.CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
intctlIPTI.CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
intctlIPTI.CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
intctlIPTI.CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
intctlIPTI.CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
intctlIPTI.CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
intctlIPTI.CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
intctlIPTI.CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
intctlIPTI.CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1
intctlIPTI.CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
intctlIPTI.CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
intctlIPTI.CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
intctlIPTI.CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
intctlIPTI.CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
intctlIPTI.CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
intctlIPTI.CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
intctlIPTI.CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
intctlIPTI.CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
intctlIPTI.CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
intctlIPTI.CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
intctlIPTI.CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
intctlIPTI.CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2

intctlIPTI.CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
intctlIPTI.CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
intctlIPTI.CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
intctlIPTI.CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
intctlIPTI.CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
intctlIPTI.CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
intctlIPTI.CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
intctlIPTI.CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
intctlIPTI.CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
intctlIPFDC_CPU0_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP0
intctlIPFDC_CPU0_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP1
intctlIPFDC_CPU0_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP2
intctlIPFDC_CPU0_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP3
intctlIPFDC_CPU1_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP0
intctlIPFDC_CPU1_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP1
intctlIPFDC_CPU1_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP2
intctlIPFDC_CPU1_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP3
intctlIPFDC_CPU2_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP0
intctlIPFDC_CPU2_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP1
intctlIPFDC_CPU2_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP2
intctlIPFDC_CPU2_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP3
intctlIPFDC_CPU3_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP0
intctlIPFDC_CPU3_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP1
intctlIPFDC_CPU3_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP2
intctlIPFDC_CPU3_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP3
intctlIPFDC_CPU4_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP0
intctlIPFDC_CPU4_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP1
intctlIPFDC_CPU4_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP2

intctlIPFDC_CPU4_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP3
intctlIPFDC_CPU5_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP0
intctlIPFDC_CPU5_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP1
intctlIPFDC_CPU5_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP2
intctlIPFDC_CPU5_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP3
intctlIPFDC_CPU6_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP0
intctlIPFDC_CPU6_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP1
intctlIPFDC_CPU6_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP2
intctlIPFDC_CPU6_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP3
intctlIPFDC_CPU7_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP0
intctlIPFDC_CPU7_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP1
intctlIPFDC_CPU7_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP2
intctlIPFDC_CPU7_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP3
intctlIPPCI_CPU0_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP0
intctlIPPCI_CPU0_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP1
intctlIPPCI_CPU0_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP2
intctlIPPCI_CPU0_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP3
intctlIPPCI_CPU1_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP0
intctlIPPCI_CPU1_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP1
intctlIPPCI_CPU1_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP2
intctlIPPCI_CPU1_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP3
intctlIPPCI_CPU2_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP0
intctlIPPCI_CPU2_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP1
intctlIPPCI_CPU2_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP2
intctlIPPCI_CPU2_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP3
intctlIPPCI_CPU3_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP0
intctlIPPCI_CPU3_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP1
intctlIPPCI_CPU3_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP2

intctlIPPCI.CPU3_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP3
intctlIPPCI.CPU4_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP0
intctlIPPCI.CPU4_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP1
intctlIPPCI.CPU4_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP2
intctlIPPCI.CPU4_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP3
intctlIPPCI.CPU5_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP0
intctlIPPCI.CPU5_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP1
intctlIPPCI.CPU5_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP2
intctlIPPCI.CPU5_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP3
intctlIPPCI.CPU6_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP0
intctlIPPCI.CPU6_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP1
intctlIPPCI.CPU6_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP2
intctlIPPCI.CPU6_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP3
intctlIPPCI.CPU7_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP0
intctlIPPCI.CPU7_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP1
intctlIPPCI.CPU7_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP2
intctlIPPCI.CPU7_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP3
segcfg0PA	Uns32	Set CFG0.PA field of SegCtl0 register
segcfg1PA	Uns32	Set CFG1.PA field of SegCtl0 register
segcfg2PA	Uns32	Set CFG2.PA field of SegCtl1 register
segcfg3PA	Uns32	Set CFG3.PA field of SegCtl1 register
segcfg4PA	Uns32	Set CFG4.PA field of SegCtl2 register
segcfg5PA	Uns32	Set CFG5.PA field of SegCtl2 register
segcfg0AM	Uns32	Set CFG0.AM field of SegCtl0 register
segcfg1AM	Uns32	Set CFG1.AM field of SegCtl0 register
segcfg2AM	Uns32	Set CFG2.AM field of SegCtl1 register
segcfg3AM	Uns32	Set CFG3.AM field of SegCtl1 register
segcfg4AM	Uns32	Set CFG4.AM field of SegCtl2 register
segcfg5AM	Uns32	Set CFG5.AM field of SegCtl2 register
segcfg0EU	Uns32	Set CFG0.EU field of SegCtl0 register
segcfg1EU	Uns32	Set CFG1.EU field of SegCtl0 register
segcfg2EU	Uns32	Set CFG2.EU field of SegCtl1 register
segcfg3EU	Uns32	Set CFG3.EU field of SegCtl1 register
segcfg4EU	Uns32	Set CFG4.EU field of SegCtl2 register
segcfg5EU	Uns32	Set CFG5.EU field of SegCtl2 register
segcfg0C	Uns32	Set CFG0.C field of SegCtl0 register
segcfg1C	Uns32	Set CFG1.C field of SegCtl0 register
segcfg2C	Uns32	Set CFG2.C field of SegCtl1 register
segcfg3C	Uns32	Set CFG3.C field of SegCtl1 register

segcfg4C	Uns32	Set CFG4.C field of SegCtl2 register
segcfg5C	Uns32	Set CFG5.C field of SegCtl2 register
cdmmSize	Uns32	Override the cdmmSize reset value
configAR	Uns32	Enables R6 support
configBM	Uns32	Override the BM field in Config register (burst mode)
configDSP	Boolean	Override Config.DSP (data scratchpad RAM present)
configISP	Boolean	Override Config.ISP (instruction scratchpad RAM present)
configK0	Uns32	Override power on value of Config.K0 (set Kseg0 cacheability)
configKU	Uns32	Override power on value of Config.KU (set Useg cacheability)
configK23	Uns32	Override power on value of Config.K23 (set Kseg23 cacheability)
configMDU	Boolean	Override Config.MDU (iterative multiply/divide unit)
configMM	Boolean	Override Config.MM (merging mode for write)
configMT	Uns32	Override Config.MT
configSB	Boolean	Override Config.SB (simple bus transfers only)
configBCP	Boolean	Override Config.BCP (Buffer Cache Present)
MIPS16eASE	Boolean	Override Config1.CA (enables the MIPS16e ASE)
config1DA	Uns32	Override Config1.DA (Dcache associativity)
config1DL	Uns32	Override Config1.DL (Dcache line size)
config1DS	Uns32	Override Config1.DS (Dcache sets per way)
config1EP	Boolean	Override Config1.EP (EJTag present)
config1IA	Uns32	Override Config1.IA (Icache associativity)
config1IL	Uns32	Override Config1.IL (Icache line size)
config1IS	Uns32	Override Config1.IS (Icache sets per way)
config1MMUSizeM1	Uns32	Override Config1.MMUSizeM1 (number of MMU entries-1)
config1MMUSizeM1_VPE1	Uns32	Override Config1.MMUSizeM1 for VPE1
config1MMUSizeM1_VPE2	Uns32	Override Config1.MMUSizeM1 for VPE2
config1MMUSizeM1_VPE3	Uns32	Override Config1.MMUSizeM1 for VPE3
config1WR	Boolean	Override Config1.WR (watchpoint registers present)
config1PC	Boolean	Override Config1.PC (Performance Counters present)
config1C2	Boolean	Override Config1.C2 (Coprocessor 2 present)
config2SU	Uns32	Override the SU field in Config2 register
config2SS	Uns32	Override the SS field in Config2 register
config2SL	Uns32	Override the SL field in Config2 register
config2SA	Uns32	Override the SA field in Config2 register
config3BI	Boolean	Override Config3.BI
config3BP	Boolean	Override Config3.BP
config3CDMM	Boolean	Override Config3.CDMM
config3CTXTC	Boolean	Override Config3.CTXTC
config3DSPP	Boolean	Override Config3.DSPP
config3DSP2P	Boolean	Override Config3.DSP2P
config3IPLW	Uns32	Override Config3.IPLW
config3ISA	Uns32	Override Config3.ISA
config3ISAOnExc	Boolean	Override Config3.ISAOnExc
config3ITL	Boolean	Override Config3.ITL
config3LPA	Boolean	Override Config3.LPA
config3MCU	Boolean	Override Config3.MCU

config3MMAR	Uns32	Override Config3.MMAR
config3RXI	Boolean	Override Config3.RXI
config3SC	Boolean	Override Config3.SC
config3ULRI	Boolean	Override Config3.ULRI
config3VZ	Boolean	Override Config3.VZ
config3MSAP	Boolean	Override Config3.MSAP
config3CMGCR	Boolean	Override the CMGCR field in Config3 register
config3SP	Boolean	Override the SP field in Config3 register
config3TL	Uns32	Override the TL field in Config3 register
config3PW	Boolean	Override the PW field in Config3 register
config4AE	Boolean	Override Config4.AE
config4IE	Uns32	Override Config4.IE
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation depends on MMUExtDef value)
config4MMUExtDef	Uns32	Override Config4.MMUExtDef
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt
config4KScrExist	Uns32	Override Config4.KScrExist
config5EVA	Boolean	Override Config5.EVA
config5LLB	Boolean	Override Config5.LLB (LLAddr supports LLbit)
config5MRP	Boolean	Override Config5.MRP (Maar Present)
config5NFExists	Boolean	Override Config5.NFExists
mips32Macro	Boolean	Enables the MIPS32 SAVE and RESTORE macro instructions. Ignored if Config5.CA2 is not set)
config5MSAEn	Boolean	Override Config5.MSAEn
config5MVH	Boolean	Override Config5.MVH (enable MTHC0 and MFHC0 instructions)
config5DEC	Boolean	Override Config5.DEC (to test Dual Endian Capability)
config5GI	Uns32	Override Config5.GI (enable GINV)
config5CRCP	Boolean	Override Config5.CRCP (CRCP Present)
config5VP	Boolean	Override Config5.VP
config6FTLBEEn	Boolean	Override power on value of Config6.FTLBEEn
config7AR	Boolean	Override Config7.AR (Alias removed Data cache)
config7DCIDX_MODE	Uns32	Override Config7.DCIDX_MODE
config7HCI	Boolean	Override Config7.HCI (Hardware Cache Initialization)
config7IAR	Boolean	Override Config7.IAR (Alias removed Instruction cache)
config7WII	Boolean	Override Config7.WII (wait IE/IXMT ignore)
config7ES	Uns32	Override the ES field in Config7 register (Externalize sync)
config7WR	Boolean	Override Config7[31] bit (Alternative implementation of Watch registers)
config7FPR	Boolean	Override Config7.FPR (one-half FPU clock ratio)
config7USP	Uns32	Override Config7.USP (USPRAM enable)
config7BTLM	Boolean	Override Config7.BTLM bit
config7BusSlp	Boolean	Override Config7.BusSlp bit
config7IVAD	Boolean	Override Config7.IVAD bit
config7RPS	Boolean	Override Config7.RPS bit
config7IAR_CPU0_VPE0	Boolean	Override Config7.IAR bit for CPU0/VPE0
config7IAR_CPU0_VPE1	Boolean	Override Config7.IAR bit for CPU0/VPE1
config7IAR_CPU0_VPE2	Boolean	Override Config7.IAR bit for CPU0/VPE2
config7IAR_CPU0_VPE3	Boolean	Override Config7.IAR bit for CPU0/VPE3
config7IAR_CPU1_VPE0	Boolean	Override Config7.IAR bit for CPU1/VPE0
config7IAR_CPU1_VPE1	Boolean	Override Config7.IAR bit for CPU1/VPE1
config7IAR_CPU1_VPE2	Boolean	Override Config7.IAR bit for CPU1/VPE2

config7IAR_CPU1_VPE3	Boolean	Override Config7.IAR bit for CPU1/VPE3
config7IAR_CPU2_VPE0	Boolean	Override Config7.IAR bit for CPU2/VPE0
config7IAR_CPU2_VPE1	Boolean	Override Config7.IAR bit for CPU2/VPE1
config7IAR_CPU2_VPE2	Boolean	Override Config7.IAR bit for CPU2/VPE2
config7IAR_CPU2_VPE3	Boolean	Override Config7.IAR bit for CPU2/VPE3
config7IAR_CPU3_VPE0	Boolean	Override Config7.IAR bit for CPU3/VPE0
config7IAR_CPU3_VPE1	Boolean	Override Config7.IAR bit for CPU3/VPE1
config7IAR_CPU3_VPE2	Boolean	Override Config7.IAR bit for CPU3/VPE2
config7IAR_CPU3_VPE3	Boolean	Override Config7.IAR bit for CPU3/VPE3
config7IAR_CPU4_VPE0	Boolean	Override Config7.IAR bit for CPU4/VPE0
config7IAR_CPU4_VPE1	Boolean	Override Config7.IAR bit for CPU4/VPE1
config7IAR_CPU4_VPE2	Boolean	Override Config7.IAR bit for CPU4/VPE2
config7IAR_CPU4_VPE3	Boolean	Override Config7.IAR bit for CPU4/VPE3
config7IAR_CPU5_VPE0	Boolean	Override Config7.IAR bit for CPU5/VPE0
config7IAR_CPU5_VPE1	Boolean	Override Config7.IAR bit for CPU5/VPE1
config7IAR_CPU5_VPE2	Boolean	Override Config7.IAR bit for CPU5/VPE2
config7IAR_CPU5_VPE3	Boolean	Override Config7.IAR bit for CPU5/VPE3
config7IAR_CPU6_VPE0	Boolean	Override Config7.IAR bit for CPU6/VPE0
config7IAR_CPU6_VPE1	Boolean	Override Config7.IAR bit for CPU6/VPE1
config7IAR_CPU6_VPE2	Boolean	Override Config7.IAR bit for CPU6/VPE2
config7IAR_CPU6_VPE3	Boolean	Override Config7.IAR bit for CPU6/VPE3
config7IAR_CPU7_VPE0	Boolean	Override Config7.IAR bit for CPU7/VPE0
config7IAR_CPU7_VPE1	Boolean	Override Config7.IAR bit for CPU7/VPE1
config7IAR_CPU7_VPE2	Boolean	Override Config7.IAR bit for CPU7/VPE2
config7IAR_CPU7_VPE3	Boolean	Override Config7.IAR bit for CPU7/VPE3
config7IVAD_CPU0_VPE0	Boolean	Override Config7.IVAD bit for CPU0/VPE0
config7IVAD_CPU0_VPE1	Boolean	Override Config7.IVAD bit for CPU0/VPE1
config7IVAD_CPU0_VPE2	Boolean	Override Config7.IVAD bit for CPU0/VPE2
config7IVAD_CPU0_VPE3	Boolean	Override Config7.IVAD bit for CPU0/VPE3
config7IVAD_CPU1_VPE0	Boolean	Override Config7.IVAD bit for CPU1/VPE0
config7IVAD_CPU1_VPE1	Boolean	Override Config7.IVAD bit for CPU1/VPE1
config7IVAD_CPU1_VPE2	Boolean	Override Config7.IVAD bit for CPU1/VPE2
config7IVAD_CPU1_VPE3	Boolean	Override Config7.IVAD bit for CPU1/VPE3
config7IVAD_CPU2_VPE0	Boolean	Override Config7.IVAD bit for CPU2/VPE0
config7IVAD_CPU2_VPE1	Boolean	Override Config7.IVAD bit for CPU2/VPE1
config7IVAD_CPU2_VPE2	Boolean	Override Config7.IVAD bit for CPU2/VPE2
config7IVAD_CPU2_VPE3	Boolean	Override Config7.IVAD bit for CPU2/VPE3
config7IVAD_CPU3_VPE0	Boolean	Override Config7.IVAD bit for CPU3/VPE0
config7IVAD_CPU3_VPE1	Boolean	Override Config7.IVAD bit for CPU3/VPE1
config7IVAD_CPU3_VPE2	Boolean	Override Config7.IVAD bit for CPU3/VPE2
config7IVAD_CPU3_VPE3	Boolean	Override Config7.IVAD bit for CPU3/VPE3
config7IVAD_CPU4_VPE0	Boolean	Override Config7.IVAD bit for CPU4/VPE0
config7IVAD_CPU4_VPE1	Boolean	Override Config7.IVAD bit for CPU4/VPE1
config7IVAD_CPU4_VPE2	Boolean	Override Config7.IVAD bit for CPU4/VPE2
config7IVAD_CPU4_VPE3	Boolean	Override Config7.IVAD bit for CPU4/VPE3
config7IVAD_CPU5_VPE0	Boolean	Override Config7.IVAD bit for CPU5/VPE0
config7IVAD_CPU5_VPE1	Boolean	Override Config7.IVAD bit for CPU5/VPE1
config7IVAD_CPU5_VPE2	Boolean	Override Config7.IVAD bit for CPU5/VPE2
config7IVAD_CPU5_VPE3	Boolean	Override Config7.IVAD bit for CPU5/VPE3
config7IVAD_CPU6_VPE0	Boolean	Override Config7.IVAD bit for CPU6/VPE0
config7IVAD_CPU6_VPE1	Boolean	Override Config7.IVAD bit for CPU6/VPE1
config7IVAD_CPU6_VPE2	Boolean	Override Config7.IVAD bit for CPU6/VPE2
config7IVAD_CPU6_VPE3	Boolean	Override Config7.IVAD bit for CPU6/VPE3
config7IVAD_CPU7_VPE0	Boolean	Override Config7.IVAD bit for CPU7/VPE0
config7IVAD_CPU7_VPE1	Boolean	Override Config7.IVAD bit for CPU7/VPE1
config7IVAD_CPU7_VPE2	Boolean	Override Config7.IVAD bit for CPU7/VPE2

config7IVAD_CPU7_VPE3	Boolean	Override Config7.IVAD bit for CPU7/VPE3
config7RPS_CPU0_VPE0	Boolean	Override Config7.RPS bit for CPU0/VPE0
config7RPS_CPU0_VPE1	Boolean	Override Config7.RPS bit for CPU0/VPE1
config7RPS_CPU0_VPE2	Boolean	Override Config7.RPS bit for CPU0/VPE2
config7RPS_CPU0_VPE3	Boolean	Override Config7.RPS bit for CPU0/VPE3
config7RPS_CPU1_VPE0	Boolean	Override Config7.RPS bit for CPU1/VPE0
config7RPS_CPU1_VPE1	Boolean	Override Config7.RPS bit for CPU1/VPE1
config7RPS_CPU1_VPE2	Boolean	Override Config7.RPS bit for CPU1/VPE2
config7RPS_CPU1_VPE3	Boolean	Override Config7.RPS bit for CPU1/VPE3
config7RPS_CPU2_VPE0	Boolean	Override Config7.RPS bit for CPU2/VPE0
config7RPS_CPU2_VPE1	Boolean	Override Config7.RPS bit for CPU2/VPE1
config7RPS_CPU2_VPE2	Boolean	Override Config7.RPS bit for CPU2/VPE2
config7RPS_CPU2_VPE3	Boolean	Override Config7.RPS bit for CPU2/VPE3
config7RPS_CPU3_VPE0	Boolean	Override Config7.RPS bit for CPU3/VPE0
config7RPS_CPU3_VPE1	Boolean	Override Config7.RPS bit for CPU3/VPE1
config7RPS_CPU3_VPE2	Boolean	Override Config7.RPS bit for CPU3/VPE2
config7RPS_CPU3_VPE3	Boolean	Override Config7.RPS bit for CPU3/VPE3
config7RPS_CPU4_VPE0	Boolean	Override Config7.RPS bit for CPU4/VPE0
config7RPS_CPU4_VPE1	Boolean	Override Config7.RPS bit for CPU4/VPE1
config7RPS_CPU4_VPE2	Boolean	Override Config7.RPS bit for CPU4/VPE2
config7RPS_CPU4_VPE3	Boolean	Override Config7.RPS bit for CPU4/VPE3
config7RPS_CPU5_VPE0	Boolean	Override Config7.RPS bit for CPU5/VPE0
config7RPS_CPU5_VPE1	Boolean	Override Config7.RPS bit for CPU5/VPE1
config7RPS_CPU5_VPE2	Boolean	Override Config7.RPS bit for CPU5/VPE2
config7RPS_CPU5_VPE3	Boolean	Override Config7.RPS bit for CPU5/VPE3
config7RPS_CPU6_VPE0	Boolean	Override Config7.RPS bit for CPU6/VPE0
config7RPS_CPU6_VPE1	Boolean	Override Config7.RPS bit for CPU6/VPE1
config7RPS_CPU6_VPE2	Boolean	Override Config7.RPS bit for CPU6/VPE2
config7RPS_CPU6_VPE3	Boolean	Override Config7.RPS bit for CPU6/VPE3
config7RPS_CPU7_VPE0	Boolean	Override Config7.RPS bit for CPU7/VPE0
config7RPS_CPU7_VPE1	Boolean	Override Config7.RPS bit for CPU7/VPE1
config7RPS_CPU7_VPE2	Boolean	Override Config7.RPS bit for CPU7/VPE2
config7RPS_CPU7_VPE3	Boolean	Override Config7.RPS bit for CPU7/VPE3
statusFR	Boolean	Override power on value in Status.FR (Floating point register mode)
fcsrABS2008	Boolean	Override FCSR.ABS2008 (ABS/NEG compliant with IEEE 754-2008)
fcsrNaN2008	Boolean	Override FCSR.NAN2008 (QNaN/SNaN encodings match IEEE 754-2008 recommendation)
numMaarRegs	Uns32	Override number of MAAR registers (must be even)
srsconf0SRS1	Uns32	Override the SRS1 field in SRSConf0 register
srsconf0SRS2	Uns32	Override the SRS2 field in SRSConf0 register
srsconf0SRS3	Uns32	Override the SRS3 field in SRSConf0 register
wiredLimit	Uns32	Override Limit field of the Wired register
wiredLimitBits	Uns32	Override width of Limit field of the Wired register
wiredWiredBits	Uns32	Override width of Wired field of the Wired register
cdmmBaseCI	Boolean	Override CDMMBase.CI
parityEnable	Uns32	Specify error detection support: 0 - none; 1 - parity; 2 - ECC
useMpTb	Boolean	Override Use of multi-processor test bench
ExceptionBase	Uns32	Specify the BEV Exception Base address. (use GCR.Cx_RESET_BASE on CMP processors)
UseExceptionBase	Boolean	Set to one to use ExceptionBase[29:12] as the corresponding BEV address bits



firstBEVExceptionBaseMaskBit	Uns32	Specify LSB position of GCR.Cx.RESET_EXT.BASE.BEVExceptionBaseMask field. Only used when SegCtl present
EVAReset	Boolean	Set to one to reset into non-legacy address map and BEV location. Only used when non-CMP and SegCtl present
ExceptionBaseMask	Uns32	Specify the ExceptionBaseMask value used for bits [27:firstBEVExceptionBaseMaskBit]. Only used when non-CMP and SegCtl present
ExceptionBasePA	Uns32	Bits [35:29] of the physical address for the BEV overlays. Only used when non-CMP and SegCtl present
l1BufferCache	Boolean	L1 Buffer Cache
GCU_EX	Boolean	CMP system only: GCR custom block present
GIC_EX	Boolean	CMP system only: GIC unit present
CPC_EX	Boolean	CMP system only: CPC unit present
TIMER_ROUTABLE	Boolean	CMP system only: cpu timer interrupt routable within cluster
SWINT_ROUTABLE	Boolean	CMP system only: software interrupt routable within cluster
PERFCNT_ROUTABLE	Boolean	CMP system only: performance counter interrupt routable within cluster
FDC_ROUTABLE	Boolean	CMP system only: fast debug channel interrupt routable within cluster
GCR_PCORES	Uns32	CMP system only: override GCR.CONFIG.PCORES (number of cores-1)
GCR_ADDR_REGIONS	Uns32	CMP system only: override GCR.CONFIG.ADDR_REGIONS (number of MMIO address regions)
GCR_NUMAUX	Uns32	CMP system only: override GCR.CONFIG.NUMAUX (number of auxiliary memory ports)
GCR_BASE	Uns32	CMP system only: override GCR.BASE.GCR_BASE (default GCR register address)
GCR_MINOR_REV	Uns32	CMP system only: override GCR.REV.MINOR_REV
GCR_MAJOR_REV	Uns32	CMP system only: override GCR.REV.MAJOR_REV
GCR_CACHE_MINOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MINOR_REV
GCR_CACHE_MAJOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MAJOR_REV
GCR_L2_ASSOC	Uns32	CMP system only: override GCR.L2.CONFIG.ASSOC
GCR_L2_SET_SIZE	Uns32	CMP system only: override GCR.L2.CONFIG.SET_SIZE
GCR_SYS_CONFIG2_MAX_VP_WIDTH	Uns32	CMP system only: override GCR.SYS_CONFIG2.MAX_VP_WIDTH
GCR_IOCUI1_MINOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MINOR_REV
GCR_IOCUI1_MAJOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MAJOR_REV
GIC_NUMINTERRUPTS	Uns32	CMP system only: override GIC.SH.CONFIG.NUMINTERRUPTS
GIC_COUNTBITS	Uns32	CMP system only: override GIC.SH.CONFIG.COUNTBITS

GIC.MINOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MINOR.REV
GIC.MAJOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MAJOR.REV
GIC.NUM.TEAMS	Uns32	CMP system only: override GIC.SH.DBG.CONFIG.NUM.TEAMS
GIC.TRIG.RESET	Uns32	CMP system only: Zero value of GIC.SH.TRIG_[31_0, 63_32]
GIC.PVPES	Uns32	CMP system only: override GIC.SH.CONFIG.PVPE
CPC.MICROSTEP	Uns32	CMP system only: override CPC.SEQDEL.MICROSTEP
CPC.RAILDELAY	Uns32	CMP system only: override CPC.RAIL.RAILDELAY
CPC.RESETLEN	Uns32	CMP system only: override CPC.RESETLEN.RESETLEN
CPC.MINOR.REV	Uns32	CMP system only: override CPC.REVISION.MINOR.REV
CPC.MAJOR.REV	Uns32	CMP system only: override CPC.REVISION.MAJOR.REV
GIC.SH.GID.CONFIG31_0	Uns32	CMP system only: override GIC.SH.GID.CONFIG[31_0]
GIC.SH.GID.CONFIG63_32	Uns32	CMP system only: override GIC.SH.GID.CONFIG[63_32]
GIC.SH.GID.CONFIG95_64	Uns32	CMP system only: override GIC.SH.GID.CONFIG[95_64]
GIC.SH.GID.CONFIG127_96	Uns32	CMP system only: override GIC.SH.GID.CONFIG[127_96]
GIC.SH.GID.CONFIG159_128	Uns32	CMP system only: override GIC.SH.GID.CONFIG[159_128]
GIC.SH.GID.CONFIG191_160	Uns32	CMP system only: override GIC.SH.GID.CONFIG[191_160]
GIC.SH.GID.CONFIG223_192	Uns32	CMP system only: override GIC.SH.GID.CONFIG[223_192]
GIC.SH.GID.CONFIG255_224	Uns32	CMP system only: override GIC.SH.GID.CONFIG[255_224]
gicVirtualVPNum_CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
gicVirtualVPNum_CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
gicVirtualVPNum_CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
gicVirtualVPNum_CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
gicVirtualVPNum_CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
gicVirtualVPNum_CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
gicVirtualVPNum_CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
gicVirtualVPNum_CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
gicVirtualVPNum_CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
gicVirtualVPNum_CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1

gicVirtualVPNum_CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
gicVirtualVPNum_CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
gicVirtualVPNum_CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
gicVirtualVPNum_CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
gicVirtualVPNum_CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
gicVirtualVPNum_CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
gicVirtualVPNum_CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
gicVirtualVPNum_CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
gicVirtualVPNum_CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
gicVirtualVPNum_CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
gicVirtualVPNum_CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
gicVirtualVPNum_CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
gicVirtualVPNum_CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2
gicVirtualVPNum_CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
gicVirtualVPNum_CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
gicVirtualVPNum_CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
gicVirtualVPNum_CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
gicVirtualVPNum_CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
gicVirtualVPNum_CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
gicVirtualVPNum_CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
gicVirtualVPNum_CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
gicVirtualVPNum_CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
GCR_C0_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 0
GCR_C1_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 1
GCR_C2_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 2
GCR_C3_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 3
GCR_C4_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 4
GCR_C5_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 5

GCR_C6.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 6
GCR_C7.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 7
GCR_C8.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 8
GCR_C9.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 9
GCR_C0.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 0
GCR_C1.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 1
GCR_C2.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 2
GCR_C3.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 3
GCR_C4.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 4
GCR_C5.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 5
GCR_C6.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 6
GCR_C7.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 7
GCR_C8.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 8
GCR_C9.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 9
CPC_C0.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 0
CPC_C1.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 1
CPC_C2.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 2
CPC_C3.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 3
CPC_C4.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 4
CPC_C5.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 5
CPC_C6.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 6
CPC_C7.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 7
CPC_C8.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 8
CPC_C9.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 9
EIC.OPTION	Uns32	Override the external interrupt controller EIC.OPTION
hasImpl17	Boolean	Enable read/write of Impl17 bit in Status register
hasImpl16	Boolean	Enable read/write of Impl16 bit in Status register
ISPRAM.SIZE	Uns32	Encoded size of the ISPRAM region ( $\log_2(\text{ISPRAM size in bytes}) - 11$ )
ISPRAM.BASE	Uns64	Starting physical address of the ISPRAM region
ISPRAM.ENABLE	Boolean	Set the enable bit of the ISPRAM region's tag (used to enable the ISPRAM region prior to reset)
ISPRAM.FILE	String	Load a MIPS hex file into the ISPRAM region prior to reset
DSPRAM.SIZE	Uns32	Encoded size of the DSPRAM region ( $\log_2(\text{DSPRAM size in bytes}) - 11$ )
DSPRAM.BASE	Uns64	Starting physical address of the DSPRAM region
DSPRAM.ENABLE	Boolean	Set the enable bit of the DSPRAM region's tag (used to enable the DSPRAM region prior to reset)
DSPRAM.PRESENT	Boolean	DSPRAM is present with SAAR

USPRAM_SIZE	Uns32	Encoded size of the USPRAM region ( $\log_2(\text{USPRAM size in bytes}) - 11$ )
USPRAM_BASE	Uns64	Starting physical address of the USPRAM region
USPRAM_ENABLE	Boolean	Set the enable bit of the USPRAM region's tag (used to enable the USPRAM region prior to reset)
USPRAM_FILE	String	Load a MIPS hex file into the USPRAM region prior to reset
misalignedDataException	Enumeration	Select misaligned data access exception signaling: never, checkCCA or always (never, checkCCA or always)
commitTlbwErr	Boolean	Commit TLBWI/TLBRI on ECC; in MIPS_DV_MODE only

Table 8.3: Parameters that can be set in: VPE

Name	Type	Description
endian	Endian	Model endian
cacheenable	Enumeration	Select cache model mode (default, tag or full)
cachedebug	Uns32	Cache debug flags
cacheextbiuinfo	Pointer	Pointer to platform-provided BIU cache info structure
mipsHexFile	String	Load a MIPS hex file (test-mode)
IMPERAS_MIPS_AVP_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes (specific for AVP test termination)
cacheIndexBypassTLB	Boolean	When set, cache index ops do not generate TLB exceptions
MIPS_TRACE	Boolean	Enable MIPS-format trace output
gprNames	Boolean	Disassemble the register names from the default ABI instead of register numbers for MIPS-format trace output
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, accesses of memory not defined by platform will cause bus error exceptions
fixedMMU	Boolean	Override the MMU type to fixed mapping when true (sets Config.MT=3, Config.KU/K23=2 and Config1.MMUSizeM1=0)
fixedDbgRegSize	Boolean	Enable applications to debug on P5600 with GDB version 2015.06-05 and prior
removeDSP	Boolean	Override the DSP-present configuration when true (sets Config3.DSPP/DSP2P=0)
removeCMP	Boolean	Override the CMP-Present configuration when true (sets Config3.CMGCR and GCR_BASE to 0)
removeFP	Boolean	Override the FP-Present configuration when true (sets Config1.FP to 0)
removeFTLB	Boolean	Override the FTLBEn configuration when true (disable FTLB)
isISA	Boolean	Enable to specify ISA model (reset address from ELF, all coprocessors enabled)
hiddenTLBentries	Boolean	Deprecated - Instead set config1MMUSizeM1 to maximum value to improve performance
perfCounters	Uns32	Performance Counters
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)

ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC implementation (MT cores only)
ITCFIFODepth	Uns32	Specify ITC FIFO cell depth. By default supports 4.
ITCEmptyOnReset	Boolean	Specify ITC E/F cells reset to a known empty state.
MTFPU	Uns32	Enable multi-threaded FPU (1:old mttc1 behavior, 2:new mttc1 behavior)
supportDenormals	Boolean	Enable to specify that the FPU supports denormal operands and results
VPE0MaxTC	Uns32	Specifies the maximum TCs initially on VPE0. Ignored if less than two VPEs configured.
VPE1MaxTC	Uns32	Specifies the maximum TCs initially on VPE1. Ignored if less than three VPEs configured.
mpuRegions	Uns32	Number of regions for memory protection unit
mpuType	Uns32	Type of MPU implementation
mpuEnable	Boolean	Enable MPU2 segment control at reset
mpuSegment0	Uns32	Attributes for segment 0 in MPU2 SegmentControl_0 register
mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 register
mpuSegment2	Uns32	Attributes for segment 2 in MPU2 SegmentControl_0 register
mpuSegment3	Uns32	Attributes for segment 3 in MPU2 SegmentControl_0 register
mpuSegment4	Uns32	Attributes for segment 4 in MPU2 SegmentControl_1 register
mpuSegment5	Uns32	Attributes for segment 5 in MPU2 SegmentControl_1 register
mpuSegment6	Uns32	Attributes for segment 6 in MPU2 SegmentControl_1 register
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 register
mpuSegment8	Uns32	Attributes for segment 8 in MPU2 SegmentControl_2 register
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 register
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 register
mpuSegment11	Uns32	Attributes for segment 11 in MPU2 SegmentControl_2 register
mpuSegment12	Uns32	Attributes for segment 12 in MPU2 SegmentControl_3 register
mpuSegment13	Uns32	Attributes for segment 13 in MPU2 SegmentControl_3 register
mpuSegment14	Uns32	Attributes for segment 14 in MPU2 SegmentControl_3 register
mpuSegment15	Uns32	Attributes for segment 15 in MPU2 SegmentControl_3 register
mvpconf0vpe	Uns32	Override MVPConf0.PVPE
tcDisable	Uns32	Number of disabled TCs
vpeDisable	Uns32	Number of disabled VPEs
mvpconf0tc	Uns32	Override MVPConf0.PTC
mvpconf0pcp	Boolean	Override MVPConf0.PCP
mvpconf0tcp	Boolean	Override MVPConf0.TCP
mvpconf1c1f	Boolean	Override MVPConf.C1F
mvpcontrolPolicyMode	Boolean	Override MVPControl.POLICY_MODE

hasFDC	Uns32	Specify the size of Fast Debug Channel register block
licenseWarningDays	Uns32	Specify the number of days before a license expires to start issuing a warning. 0 disables warnings.
MIPS_UHI	Boolean	Enable MIPS-Unified Hosting interface
mipsUhiArgs	String	Specifies UHI arguments string separated by spaces
mipsUhiJail	String	Specifies UHI jailroot
MIPS_DV_MODE	Boolean	Enable Design Verification mode
MIPS_MAGIC_OPCODES	Boolean	Enable MIPS-specific magic Pass/Fail opcodes
enableTrickbox	Boolean	Enable trickbox addresses (specific for AVP)
fpuexcdisable	Boolean	Disable FPU exceptions
TRU_PRESENT	Boolean	Disable or Enable based on TRU presence to control certain fields (e.x.perfCtl.PCTD
ucLLwordsLocked	Uns32	Numbers of words (4 byte) an uncached LL is locking. Maximum: 4K
FUSA	Boolean	Enable Functional Safety
CPC_FAULT_SUPPORTED	Uns32	Specify the value for Functional Safety Supported register
CPC_FAULT_ENABLE	Uns32	Specify the value for Functional Safety Enable register
cop2Bits	Uns32	Specifies width in bits of COP2 registers (32 or 64)
cop2FileName	String	Specifies COP2 dynamically-loaded object (.so/.dll) defining COP2 instructions
udiConfig	Int32	Specifies UDI configuration attribute
udiFileName	String	Specifies UDI dynamically-loaded object (.so/.dll) defining UDI instructions
vectoredinterrupt	Boolean	Enables vectored interrupts (sets Config3 VInt)
externalinterrupt	Boolean	Enables the use of an external interrupt controller (sets Config3 VEIC)
config3VEIC_VPE0	Boolean	Enables an external interrupt controller on VPE0 (sets Config3 VEIC)
config3VEIC_VPE1	Boolean	Enables an external interrupt controller on VPE1 (sets Config3 VEIC)
config3VEIC_VPE2	Boolean	Enables an external interrupt controller on VPE2 (sets Config3 VEIC)
config3VEIC_VPE3	Boolean	Enables an external interrupt controller on VPE3 (sets Config3 VEIC)
rootFixedMMU	Boolean	Override the root MMU type to fixed mapping when true (sets Config.MT=3 and Config.KU/K23=2)
rootMMUSizeM1	Uns32	Override the root MMUSizeM1 field in Config1 register (number of MMU entries-1)
srscctlHSS	Uns32	Override the HSS field in SRSCtl register (number of shadow register sets)
firPS	Uns32	Override the PS field in FIR register
firHas2008	Uns32	Override the Has2008 field in FIR register
usePreciseFpu	Uns32	Use the precise Floating Point emulation
simulateLite	Enumeration	Run Simulation with optimization. There are several optimizations which could be combined (NONE, FS, MA or FSMA)
pridCompanyOptions	Uns32	Override the Company Options field in PRId register
pridRevision	Uns32	Override the Revision field in PRId register
globalClusterNum	Uns32	Override the ClusterNum field in GlobalNumber register
intctlIPTI	Uns32	Override the IPTI field in IntCtl register

intctlIPFDC	Uns32	Override the IPFDC field in IntCtl register
intctlIPPCI	Uns32	Override the IPPCI field in IntCtl register
numWatch	Uns32	Specify number of WatchLo/WatchHi register pairs
maxVP	Uns32	Specify maximum number of Virtual Processors present in a core
numVP	Uns32	Specify number of Virtual Processors to be present
numVPtoStart	Uns32	Specify number of Virtual Processors to be started
sharedTLBindex	Uns32	Specify first shared TLB Index between Virtual Cores
xconfigSpecified	Boolean	True if the configuration comes from a valid xconfig file
intctlIPTI.CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
intctlIPTI.CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
intctlIPTI.CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
intctlIPTI.CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
intctlIPTI.CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
intctlIPTI.CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
intctlIPTI.CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
intctlIPTI.CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
intctlIPTI.CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
intctlIPTI.CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1
intctlIPTI.CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
intctlIPTI.CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
intctlIPTI.CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
intctlIPTI.CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
intctlIPTI.CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
intctlIPTI.CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
intctlIPTI.CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
intctlIPTI.CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
intctlIPTI.CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
intctlIPTI.CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
intctlIPTI.CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
intctlIPTI.CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
intctlIPTI.CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2



intctlIPTI.CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
intctlIPTI.CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
intctlIPTI.CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
intctlIPTI.CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
intctlIPTI.CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
intctlIPTI.CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
intctlIPTI.CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
intctlIPTI.CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
intctlIPTI.CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
intctlIPFDC_CPU0_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP0
intctlIPFDC_CPU0_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP1
intctlIPFDC_CPU0_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP2
intctlIPFDC_CPU0_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU0/VP3
intctlIPFDC_CPU1_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP0
intctlIPFDC_CPU1_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP1
intctlIPFDC_CPU1_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP2
intctlIPFDC_CPU1_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU1/VP3
intctlIPFDC_CPU2_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP0
intctlIPFDC_CPU2_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP1
intctlIPFDC_CPU2_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP2
intctlIPFDC_CPU2_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU2/VP3
intctlIPFDC_CPU3_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP0
intctlIPFDC_CPU3_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP1
intctlIPFDC_CPU3_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP2
intctlIPFDC_CPU3_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU3/VP3
intctlIPFDC_CPU4_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP0
intctlIPFDC_CPU4_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP1
intctlIPFDC_CPU4_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP2

intctlIPFDC_CPU4_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU4/VP3
intctlIPFDC_CPU5_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP0
intctlIPFDC_CPU5_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP1
intctlIPFDC_CPU5_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP2
intctlIPFDC_CPU5_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU5/VP3
intctlIPFDC_CPU6_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP0
intctlIPFDC_CPU6_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP1
intctlIPFDC_CPU6_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP2
intctlIPFDC_CPU6_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU6/VP3
intctlIPFDC_CPU7_VP0	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP0
intctlIPFDC_CPU7_VP1	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP1
intctlIPFDC_CPU7_VP2	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP2
intctlIPFDC_CPU7_VP3	Uns32	Override the IPFDC field in IntCtl register for CPU7/VP3
intctlIPPCI_CPU0_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP0
intctlIPPCI_CPU0_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP1
intctlIPPCI_CPU0_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP2
intctlIPPCI_CPU0_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU0/VP3
intctlIPPCI_CPU1_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP0
intctlIPPCI_CPU1_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP1
intctlIPPCI_CPU1_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP2
intctlIPPCI_CPU1_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU1/VP3
intctlIPPCI_CPU2_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP0
intctlIPPCI_CPU2_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP1
intctlIPPCI_CPU2_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP2
intctlIPPCI_CPU2_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU2/VP3
intctlIPPCI_CPU3_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP0
intctlIPPCI_CPU3_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP1
intctlIPPCI_CPU3_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP2

intctlIPPCI.CPU3_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU3/VP3
intctlIPPCI.CPU4_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP0
intctlIPPCI.CPU4_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP1
intctlIPPCI.CPU4_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP2
intctlIPPCI.CPU4_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU4/VP3
intctlIPPCI.CPU5_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP0
intctlIPPCI.CPU5_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP1
intctlIPPCI.CPU5_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP2
intctlIPPCI.CPU5_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU5/VP3
intctlIPPCI.CPU6_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP0
intctlIPPCI.CPU6_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP1
intctlIPPCI.CPU6_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP2
intctlIPPCI.CPU6_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU6/VP3
intctlIPPCI.CPU7_VP0	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP0
intctlIPPCI.CPU7_VP1	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP1
intctlIPPCI.CPU7_VP2	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP2
intctlIPPCI.CPU7_VP3	Uns32	Override the IPPCI field in IntCtl register for CPU7/VP3
segcfg0PA	Uns32	Set CFG0.PA field of SegCtl0 register
segcfg1PA	Uns32	Set CFG1.PA field of SegCtl0 register
segcfg2PA	Uns32	Set CFG2.PA field of SegCtl1 register
segcfg3PA	Uns32	Set CFG3.PA field of SegCtl1 register
segcfg4PA	Uns32	Set CFG4.PA field of SegCtl2 register
segcfg5PA	Uns32	Set CFG5.PA field of SegCtl2 register
segcfg0AM	Uns32	Set CFG0.AM field of SegCtl0 register
segcfg1AM	Uns32	Set CFG1.AM field of SegCtl0 register
segcfg2AM	Uns32	Set CFG2.AM field of SegCtl1 register
segcfg3AM	Uns32	Set CFG3.AM field of SegCtl1 register
segcfg4AM	Uns32	Set CFG4.AM field of SegCtl2 register
segcfg5AM	Uns32	Set CFG5.AM field of SegCtl2 register
segcfg0EU	Uns32	Set CFG0.EU field of SegCtl0 register
segcfg1EU	Uns32	Set CFG1.EU field of SegCtl0 register
segcfg2EU	Uns32	Set CFG2.EU field of SegCtl1 register
segcfg3EU	Uns32	Set CFG3.EU field of SegCtl1 register
segcfg4EU	Uns32	Set CFG4.EU field of SegCtl2 register
segcfg5EU	Uns32	Set CFG5.EU field of SegCtl2 register
segcfg0C	Uns32	Set CFG0.C field of SegCtl0 register
segcfg1C	Uns32	Set CFG1.C field of SegCtl0 register
segcfg2C	Uns32	Set CFG2.C field of SegCtl1 register
segcfg3C	Uns32	Set CFG3.C field of SegCtl1 register

segcfg4C	Uns32	Set CFG4.C field of SegCtl2 register
segcfg5C	Uns32	Set CFG5.C field of SegCtl2 register
cdmmSize	Uns32	Override the cdmmSize reset value
configAR	Uns32	Enables R6 support
configBM	Uns32	Override the BM field in Config register (burst mode)
configDSP	Boolean	Override Config.DSP (data scratchpad RAM present)
configISP	Boolean	Override Config.ISP (instruction scratchpad RAM present)
configK0	Uns32	Override power on value of Config.K0 (set Kseg0 cacheability)
configKU	Uns32	Override power on value of Config.KU (set Useg cacheability)
configK23	Uns32	Override power on value of Config.K23 (set Kseg23 cacheability)
configMDU	Boolean	Override Config.MDU (iterative multiply/divide unit)
configMM	Boolean	Override Config.MM (merging mode for write)
configMT	Uns32	Override Config.MT
configSB	Boolean	Override Config.SB (simple bus transfers only)
configBCP	Boolean	Override Config.BCP (Buffer Cache Present)
MIPS16eASE	Boolean	Override Config1.CA (enables the MIPS16e ASE)
config1DA	Uns32	Override Config1.DA (Dcache associativity)
config1DL	Uns32	Override Config1.DL (Dcache line size)
config1DS	Uns32	Override Config1.DS (Dcache sets per way)
config1EP	Boolean	Override Config1.EP (EJTag present)
config1IA	Uns32	Override Config1.IA (Icache associativity)
config1IL	Uns32	Override Config1.IL (Icache line size)
config1IS	Uns32	Override Config1.IS (Icache sets per way)
config1MMUSizeM1	Uns32	Override Config1.MMUSizeM1 (number of MMU entries-1)
config1MMUSizeM1_VPE1	Uns32	Override Config1.MMUSizeM1 for VPE1
config1MMUSizeM1_VPE2	Uns32	Override Config1.MMUSizeM1 for VPE2
config1MMUSizeM1_VPE3	Uns32	Override Config1.MMUSizeM1 for VPE3
config1WR	Boolean	Override Config1.WR (watchpoint registers present)
config1PC	Boolean	Override Config1.PC (Performance Counters present)
config1C2	Boolean	Override Config1.C2 (Coprocessor 2 present)
config2SU	Uns32	Override the SU field in Config2 register
config2SS	Uns32	Override the SS field in Config2 register
config2SL	Uns32	Override the SL field in Config2 register
config2SA	Uns32	Override the SA field in Config2 register
config3BI	Boolean	Override Config3.BI
config3BP	Boolean	Override Config3.BP
config3CDMM	Boolean	Override Config3.CDMM
config3CTXTC	Boolean	Override Config3.CTXTC
config3DSPP	Boolean	Override Config3.DSPP
config3DSP2P	Boolean	Override Config3.DSP2P
config3IPLW	Uns32	Override Config3.IPLW
config3ISA	Uns32	Override Config3.ISA
config3ISAOnExc	Boolean	Override Config3.ISAOnExc
config3ITL	Boolean	Override Config3.ITL
config3LPA	Boolean	Override Config3.LPA
config3MCU	Boolean	Override Config3.MCU

config3MMAR	Uns32	Override Config3.MMAR
config3RXI	Boolean	Override Config3.RXI
config3SC	Boolean	Override Config3.SC
config3ULRI	Boolean	Override Config3.ULRI
config3VZ	Boolean	Override Config3.VZ
config3MSAP	Boolean	Override Config3.MSAP
config3CMGCR	Boolean	Override the CMGCR field in Config3 register
config3SP	Boolean	Override the SP field in Config3 register
config3TL	Uns32	Override the TL field in Config3 register
config3PW	Boolean	Override the PW field in Config3 register
config4AE	Boolean	Override Config4.AE
config4IE	Uns32	Override Config4.IE
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation depends on MMUExtDef value)
config4MMUExtDef	Uns32	Override Config4.MMUExtDef
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt
config4KScrExist	Uns32	Override Config4.KScrExist
config5EVA	Boolean	Override Config5.EVA
config5LLB	Boolean	Override Config5.LLB (LLAddr supports LLbit)
config5MRP	Boolean	Override Config5.MRP (Maar Present)
config5NFExists	Boolean	Override Config5.NFExists
mips32Macro	Boolean	Enables the MIPS32 SAVE and RESTORE macro instructions. Ignored if Config5.CA2 is not set)
config5MSAEn	Boolean	Override Config5.MSAEn
config5MVH	Boolean	Override Config5.MVH (enable MTHC0 and MFHC0 instructions)
config5DEC	Boolean	Override Config5.DEC (to test Dual Endian Capability)
config5GI	Uns32	Override Config5.GI (enable GINV)
config5CRCP	Boolean	Override Config5.CRCP (CRCP Present)
config5VP	Boolean	Override Config5.VP
config6FTLBEEn	Boolean	Override power on value of Config6.FTLBEEn
config7AR	Boolean	Override Config7.AR (Alias removed Data cache)
config7DCIDX_MODE	Uns32	Override Config7.DCIDX_MODE
config7HCI	Boolean	Override Config7.HCI (Hardware Cache Initialization)
config7IAR	Boolean	Override Config7.IAR (Alias removed Instruction cache)
config7WII	Boolean	Override Config7.WII (wait IE/IXMT ignore)
config7ES	Uns32	Override the ES field in Config7 register (Externalize sync)
config7WR	Boolean	Override Config7[31] bit (Alternative implementation of Watch registers)
config7FPR	Boolean	Override Config7.FPR (one-half FPU clock ratio)
config7USP	Uns32	Override Config7.USP (USPRAM enable)
config7BTLM	Boolean	Override Config7.BTLM bit
config7BusSlp	Boolean	Override Config7.BusSlp bit
config7IVAD	Boolean	Override Config7.IVAD bit
config7RPS	Boolean	Override Config7.RPS bit
config7IAR_CPU0_VPE0	Boolean	Override Config7.IAR bit for CPU0/VPE0
config7IAR_CPU0_VPE1	Boolean	Override Config7.IAR bit for CPU0/VPE1
config7IAR_CPU0_VPE2	Boolean	Override Config7.IAR bit for CPU0/VPE2
config7IAR_CPU0_VPE3	Boolean	Override Config7.IAR bit for CPU0/VPE3
config7IAR_CPU1_VPE0	Boolean	Override Config7.IAR bit for CPU1/VPE0
config7IAR_CPU1_VPE1	Boolean	Override Config7.IAR bit for CPU1/VPE1
config7IAR_CPU1_VPE2	Boolean	Override Config7.IAR bit for CPU1/VPE2

config7IAR_CPU1_VPE3	Boolean	Override Config7.IAR bit for CPU1/VPE3
config7IAR_CPU2_VPE0	Boolean	Override Config7.IAR bit for CPU2/VPE0
config7IAR_CPU2_VPE1	Boolean	Override Config7.IAR bit for CPU2/VPE1
config7IAR_CPU2_VPE2	Boolean	Override Config7.IAR bit for CPU2/VPE2
config7IAR_CPU2_VPE3	Boolean	Override Config7.IAR bit for CPU2/VPE3
config7IAR_CPU3_VPE0	Boolean	Override Config7.IAR bit for CPU3/VPE0
config7IAR_CPU3_VPE1	Boolean	Override Config7.IAR bit for CPU3/VPE1
config7IAR_CPU3_VPE2	Boolean	Override Config7.IAR bit for CPU3/VPE2
config7IAR_CPU3_VPE3	Boolean	Override Config7.IAR bit for CPU3/VPE3
config7IAR_CPU4_VPE0	Boolean	Override Config7.IAR bit for CPU4/VPE0
config7IAR_CPU4_VPE1	Boolean	Override Config7.IAR bit for CPU4/VPE1
config7IAR_CPU4_VPE2	Boolean	Override Config7.IAR bit for CPU4/VPE2
config7IAR_CPU4_VPE3	Boolean	Override Config7.IAR bit for CPU4/VPE3
config7IAR_CPU5_VPE0	Boolean	Override Config7.IAR bit for CPU5/VPE0
config7IAR_CPU5_VPE1	Boolean	Override Config7.IAR bit for CPU5/VPE1
config7IAR_CPU5_VPE2	Boolean	Override Config7.IAR bit for CPU5/VPE2
config7IAR_CPU5_VPE3	Boolean	Override Config7.IAR bit for CPU5/VPE3
config7IAR_CPU6_VPE0	Boolean	Override Config7.IAR bit for CPU6/VPE0
config7IAR_CPU6_VPE1	Boolean	Override Config7.IAR bit for CPU6/VPE1
config7IAR_CPU6_VPE2	Boolean	Override Config7.IAR bit for CPU6/VPE2
config7IAR_CPU6_VPE3	Boolean	Override Config7.IAR bit for CPU6/VPE3
config7IAR_CPU7_VPE0	Boolean	Override Config7.IAR bit for CPU7/VPE0
config7IAR_CPU7_VPE1	Boolean	Override Config7.IAR bit for CPU7/VPE1
config7IAR_CPU7_VPE2	Boolean	Override Config7.IAR bit for CPU7/VPE2
config7IAR_CPU7_VPE3	Boolean	Override Config7.IAR bit for CPU7/VPE3
config7IVAD_CPU0_VPE0	Boolean	Override Config7.IVAD bit for CPU0/VPE0
config7IVAD_CPU0_VPE1	Boolean	Override Config7.IVAD bit for CPU0/VPE1
config7IVAD_CPU0_VPE2	Boolean	Override Config7.IVAD bit for CPU0/VPE2
config7IVAD_CPU0_VPE3	Boolean	Override Config7.IVAD bit for CPU0/VPE3
config7IVAD_CPU1_VPE0	Boolean	Override Config7.IVAD bit for CPU1/VPE0
config7IVAD_CPU1_VPE1	Boolean	Override Config7.IVAD bit for CPU1/VPE1
config7IVAD_CPU1_VPE2	Boolean	Override Config7.IVAD bit for CPU1/VPE2
config7IVAD_CPU1_VPE3	Boolean	Override Config7.IVAD bit for CPU1/VPE3
config7IVAD_CPU2_VPE0	Boolean	Override Config7.IVAD bit for CPU2/VPE0
config7IVAD_CPU2_VPE1	Boolean	Override Config7.IVAD bit for CPU2/VPE1
config7IVAD_CPU2_VPE2	Boolean	Override Config7.IVAD bit for CPU2/VPE2
config7IVAD_CPU2_VPE3	Boolean	Override Config7.IVAD bit for CPU2/VPE3
config7IVAD_CPU3_VPE0	Boolean	Override Config7.IVAD bit for CPU3/VPE0
config7IVAD_CPU3_VPE1	Boolean	Override Config7.IVAD bit for CPU3/VPE1
config7IVAD_CPU3_VPE2	Boolean	Override Config7.IVAD bit for CPU3/VPE2
config7IVAD_CPU3_VPE3	Boolean	Override Config7.IVAD bit for CPU3/VPE3
config7IVAD_CPU4_VPE0	Boolean	Override Config7.IVAD bit for CPU4/VPE0
config7IVAD_CPU4_VPE1	Boolean	Override Config7.IVAD bit for CPU4/VPE1
config7IVAD_CPU4_VPE2	Boolean	Override Config7.IVAD bit for CPU4/VPE2
config7IVAD_CPU4_VPE3	Boolean	Override Config7.IVAD bit for CPU4/VPE3
config7IVAD_CPU5_VPE0	Boolean	Override Config7.IVAD bit for CPU5/VPE0
config7IVAD_CPU5_VPE1	Boolean	Override Config7.IVAD bit for CPU5/VPE1
config7IVAD_CPU5_VPE2	Boolean	Override Config7.IVAD bit for CPU5/VPE2
config7IVAD_CPU5_VPE3	Boolean	Override Config7.IVAD bit for CPU5/VPE3
config7IVAD_CPU6_VPE0	Boolean	Override Config7.IVAD bit for CPU6/VPE0
config7IVAD_CPU6_VPE1	Boolean	Override Config7.IVAD bit for CPU6/VPE1
config7IVAD_CPU6_VPE2	Boolean	Override Config7.IVAD bit for CPU6/VPE2
config7IVAD_CPU6_VPE3	Boolean	Override Config7.IVAD bit for CPU6/VPE3
config7IVAD_CPU7_VPE0	Boolean	Override Config7.IVAD bit for CPU7/VPE0
config7IVAD_CPU7_VPE1	Boolean	Override Config7.IVAD bit for CPU7/VPE1
config7IVAD_CPU7_VPE2	Boolean	Override Config7.IVAD bit for CPU7/VPE2

config7IVAD_CPU7_VPE3	Boolean	Override Config7.IVAD bit for CPU7/VPE3
config7RPS_CPU0_VPE0	Boolean	Override Config7.RPS bit for CPU0/VPE0
config7RPS_CPU0_VPE1	Boolean	Override Config7.RPS bit for CPU0/VPE1
config7RPS_CPU0_VPE2	Boolean	Override Config7.RPS bit for CPU0/VPE2
config7RPS_CPU0_VPE3	Boolean	Override Config7.RPS bit for CPU0/VPE3
config7RPS_CPU1_VPE0	Boolean	Override Config7.RPS bit for CPU1/VPE0
config7RPS_CPU1_VPE1	Boolean	Override Config7.RPS bit for CPU1/VPE1
config7RPS_CPU1_VPE2	Boolean	Override Config7.RPS bit for CPU1/VPE2
config7RPS_CPU1_VPE3	Boolean	Override Config7.RPS bit for CPU1/VPE3
config7RPS_CPU2_VPE0	Boolean	Override Config7.RPS bit for CPU2/VPE0
config7RPS_CPU2_VPE1	Boolean	Override Config7.RPS bit for CPU2/VPE1
config7RPS_CPU2_VPE2	Boolean	Override Config7.RPS bit for CPU2/VPE2
config7RPS_CPU2_VPE3	Boolean	Override Config7.RPS bit for CPU2/VPE3
config7RPS_CPU3_VPE0	Boolean	Override Config7.RPS bit for CPU3/VPE0
config7RPS_CPU3_VPE1	Boolean	Override Config7.RPS bit for CPU3/VPE1
config7RPS_CPU3_VPE2	Boolean	Override Config7.RPS bit for CPU3/VPE2
config7RPS_CPU3_VPE3	Boolean	Override Config7.RPS bit for CPU3/VPE3
config7RPS_CPU4_VPE0	Boolean	Override Config7.RPS bit for CPU4/VPE0
config7RPS_CPU4_VPE1	Boolean	Override Config7.RPS bit for CPU4/VPE1
config7RPS_CPU4_VPE2	Boolean	Override Config7.RPS bit for CPU4/VPE2
config7RPS_CPU4_VPE3	Boolean	Override Config7.RPS bit for CPU4/VPE3
config7RPS_CPU5_VPE0	Boolean	Override Config7.RPS bit for CPU5/VPE0
config7RPS_CPU5_VPE1	Boolean	Override Config7.RPS bit for CPU5/VPE1
config7RPS_CPU5_VPE2	Boolean	Override Config7.RPS bit for CPU5/VPE2
config7RPS_CPU5_VPE3	Boolean	Override Config7.RPS bit for CPU5/VPE3
config7RPS_CPU6_VPE0	Boolean	Override Config7.RPS bit for CPU6/VPE0
config7RPS_CPU6_VPE1	Boolean	Override Config7.RPS bit for CPU6/VPE1
config7RPS_CPU6_VPE2	Boolean	Override Config7.RPS bit for CPU6/VPE2
config7RPS_CPU6_VPE3	Boolean	Override Config7.RPS bit for CPU6/VPE3
config7RPS_CPU7_VPE0	Boolean	Override Config7.RPS bit for CPU7/VPE0
config7RPS_CPU7_VPE1	Boolean	Override Config7.RPS bit for CPU7/VPE1
config7RPS_CPU7_VPE2	Boolean	Override Config7.RPS bit for CPU7/VPE2
config7RPS_CPU7_VPE3	Boolean	Override Config7.RPS bit for CPU7/VPE3
statusFR	Boolean	Override power on value in Status.FR (Floating point register mode)
fcsrABS2008	Boolean	Override FCSR.ABS2008 (ABS/NEG compliant with IEEE 754-2008)
fcsrNaN2008	Boolean	Override FCSR.NAN2008 (QNaN/SNaN encodings match IEEE 754-2008 recommendation)
numMaarRegs	Uns32	Override number of MAAR registers (must be even)
srsconf0SRS1	Uns32	Override the SRS1 field in SRSConf0 register
srsconf0SRS2	Uns32	Override the SRS2 field in SRSConf0 register
srsconf0SRS3	Uns32	Override the SRS3 field in SRSConf0 register
wiredLimit	Uns32	Override Limit field of the Wired register
wiredLimitBits	Uns32	Override width of Limit field of the Wired register
wiredWiredBits	Uns32	Override width of Wired field of the Wired register
cdmmBaseCI	Boolean	Override CDMMBase.CI
parityEnable	Uns32	Specify error detection support: 0 - none; 1 - parity; 2 - ECC
useMpTb	Boolean	Override Use of multi-processor test bench
ExceptionBase	Uns32	Specify the BEV Exception Base address. (use GCR.Cx_RESET_BASE on CMP processors)
UseExceptionBase	Boolean	Set to one to use ExceptionBase[29:12] as the corresponding BEV address bits

firstBEVExceptionBaseMaskBit	Uns32	Specify LSB position of GCR.Cx.RESET_EXT.BASE.BEVExceptionBaseMask field. Only used when SegCtl present
EVAReset	Boolean	Set to one to reset into non-legacy address map and BEV location. Only used when non-CMP and SegCtl present
ExceptionBaseMask	Uns32	Specify the ExceptionBaseMask value used for bits [27:firstBEVExceptionBaseMaskBit]. Only used when non-CMP and SegCtl present
ExceptionBasePA	Uns32	Bits [35:29] of the physical address for the BEV overlays. Only used when non-CMP and SegCtl present
l1BufferCache	Boolean	L1 Buffer Cache
GCU_EX	Boolean	CMP system only: GCR custom block present
GIC_EX	Boolean	CMP system only: GIC unit present
CPC_EX	Boolean	CMP system only: CPC unit present
TIMER_ROUTABLE	Boolean	CMP system only: cpu timer interrupt routable within cluster
SWINT_ROUTABLE	Boolean	CMP system only: software interrupt routable within cluster
PERFCNT_ROUTABLE	Boolean	CMP system only: performance counter interrupt routable within cluster
FDC_ROUTABLE	Boolean	CMP system only: fast debug channel interrupt routable within cluster
GCR_PCORES	Uns32	CMP system only: override GCR.CONFIG.PCORES (number of cores-1)
GCR_ADDR_REGIONS	Uns32	CMP system only: override GCR.CONFIG.ADDR_REGIONS (number of MMIO address regions)
GCR_NUMAUX	Uns32	CMP system only: override GCR.CONFIG.NUMAUX (number of auxiliary memory ports)
GCR_BASE	Uns32	CMP system only: override GCR.BASE.GCR_BASE (default GCR register address)
GCR_MINOR_REV	Uns32	CMP system only: override GCR.REV.MINOR_REV
GCR_MAJOR_REV	Uns32	CMP system only: override GCR.REV.MAJOR_REV
GCR_CACHE_MINOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MINOR_REV
GCR_CACHE_MAJOR_REV	Uns32	CMP system only: override GCR.CACHE.REV.MAJOR_REV
GCR_L2_ASSOC	Uns32	CMP system only: override GCR.L2.CONFIG.ASSOC
GCR_L2_SET_SIZE	Uns32	CMP system only: override GCR.L2.CONFIG.SET_SIZE
GCR_SYS_CONFIG2_MAX_VP_WIDTH	Uns32	CMP system only: override GCR.SYS_CONFIG2.MAX_VP_WIDTH
GCR_IOCUI1_MINOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MINOR_REV
GCR_IOCUI1_MAJOR_REV	Uns32	CMP system only: override GCR.IOCUI1.REV.MAJOR_REV
GIC_NUMINTERRUPTS	Uns32	CMP system only: override GIC.SH.CONFIG.NUMINTERRUPTS
GIC_COUNTBITS	Uns32	CMP system only: override GIC.SH.CONFIG.COUNTBITS



GIC.MINOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MINOR.REV
GIC.MAJOR.REV	Uns32	CMP system only: override GIC.SH.REVISION.MAJOR.REV
GIC.NUM.TEAMS	Uns32	CMP system only: override GIC.SH.DBG.CONFIG.NUM.TEAMS
GIC.TRIG.RESET	Uns32	CMP system only: Zero value of GIC.SH.TRIG_[31_0, 63_32]
GIC.PVPES	Uns32	CMP system only: override GIC.SH.CONFIG.PVPE
CPC.MICROSTEP	Uns32	CMP system only: override CPC.SEQDEL.MICROSTEP
CPC.RAILDELAY	Uns32	CMP system only: override CPC.RAIL.RAILDELAY
CPC.RESETLEN	Uns32	CMP system only: override CPC.RESETLEN.RESETLEN
CPC.MINOR.REV	Uns32	CMP system only: override CPC.REVISION.MINOR.REV
CPC.MAJOR.REV	Uns32	CMP system only: override CPC.REVISION.MAJOR.REV
GIC.SH.GID.CONFIG31_0	Uns32	CMP system only: override GIC.SH.GID.CONFIG[31_0]
GIC.SH.GID.CONFIG63_32	Uns32	CMP system only: override GIC.SH.GID.CONFIG[63_32]
GIC.SH.GID.CONFIG95_64	Uns32	CMP system only: override GIC.SH.GID.CONFIG[95_64]
GIC.SH.GID.CONFIG127_96	Uns32	CMP system only: override GIC.SH.GID.CONFIG[127_96]
GIC.SH.GID.CONFIG159_128	Uns32	CMP system only: override GIC.SH.GID.CONFIG[159_128]
GIC.SH.GID.CONFIG191_160	Uns32	CMP system only: override GIC.SH.GID.CONFIG[191_160]
GIC.SH.GID.CONFIG223_192	Uns32	CMP system only: override GIC.SH.GID.CONFIG[223_192]
GIC.SH.GID.CONFIG255_224	Uns32	CMP system only: override GIC.SH.GID.CONFIG[255_224]
gicVirtualVPNum_CPU0_VP0	Uns32	Override the IPTI field in IntCtl register for CPU0/VP0
gicVirtualVPNum_CPU0_VP1	Uns32	Override the IPTI field in IntCtl register for CPU0/VP1
gicVirtualVPNum_CPU0_VP2	Uns32	Override the IPTI field in IntCtl register for CPU0/VP2
gicVirtualVPNum_CPU0_VP3	Uns32	Override the IPTI field in IntCtl register for CPU0/VP3
gicVirtualVPNum_CPU1_VP0	Uns32	Override the IPTI field in IntCtl register for CPU1/VP0
gicVirtualVPNum_CPU1_VP1	Uns32	Override the IPTI field in IntCtl register for CPU1/VP1
gicVirtualVPNum_CPU1_VP2	Uns32	Override the IPTI field in IntCtl register for CPU1/VP2
gicVirtualVPNum_CPU1_VP3	Uns32	Override the IPTI field in IntCtl register for CPU1/VP3
gicVirtualVPNum_CPU2_VP0	Uns32	Override the IPTI field in IntCtl register for CPU2/VP0
gicVirtualVPNum_CPU2_VP1	Uns32	Override the IPTI field in IntCtl register for CPU2/VP1

gicVirtualVPNum_CPU2_VP2	Uns32	Override the IPTI field in IntCtl register for CPU2/VP2
gicVirtualVPNum_CPU2_VP3	Uns32	Override the IPTI field in IntCtl register for CPU2/VP3
gicVirtualVPNum_CPU3_VP0	Uns32	Override the IPTI field in IntCtl register for CPU3/VP0
gicVirtualVPNum_CPU3_VP1	Uns32	Override the IPTI field in IntCtl register for CPU3/VP1
gicVirtualVPNum_CPU3_VP2	Uns32	Override the IPTI field in IntCtl register for CPU3/VP2
gicVirtualVPNum_CPU3_VP3	Uns32	Override the IPTI field in IntCtl register for CPU3/VP3
gicVirtualVPNum_CPU4_VP0	Uns32	Override the IPTI field in IntCtl register for CPU4/VP0
gicVirtualVPNum_CPU4_VP1	Uns32	Override the IPTI field in IntCtl register for CPU4/VP1
gicVirtualVPNum_CPU4_VP2	Uns32	Override the IPTI field in IntCtl register for CPU4/VP2
gicVirtualVPNum_CPU4_VP3	Uns32	Override the IPTI field in IntCtl register for CPU4/VP3
gicVirtualVPNum_CPU5_VP0	Uns32	Override the IPTI field in IntCtl register for CPU5/VP0
gicVirtualVPNum_CPU5_VP1	Uns32	Override the IPTI field in IntCtl register for CPU5/VP1
gicVirtualVPNum_CPU5_VP2	Uns32	Override the IPTI field in IntCtl register for CPU5/VP2
gicVirtualVPNum_CPU5_VP3	Uns32	Override the IPTI field in IntCtl register for CPU5/VP3
gicVirtualVPNum_CPU6_VP0	Uns32	Override the IPTI field in IntCtl register for CPU6/VP0
gicVirtualVPNum_CPU6_VP1	Uns32	Override the IPTI field in IntCtl register for CPU6/VP1
gicVirtualVPNum_CPU6_VP2	Uns32	Override the IPTI field in IntCtl register for CPU6/VP2
gicVirtualVPNum_CPU6_VP3	Uns32	Override the IPTI field in IntCtl register for CPU6/VP3
gicVirtualVPNum_CPU7_VP0	Uns32	Override the IPTI field in IntCtl register for CPU7/VP0
gicVirtualVPNum_CPU7_VP1	Uns32	Override the IPTI field in IntCtl register for CPU7/VP1
gicVirtualVPNum_CPU7_VP2	Uns32	Override the IPTI field in IntCtl register for CPU7/VP2
gicVirtualVPNum_CPU7_VP3	Uns32	Override the IPTI field in IntCtl register for CPU7/VP3
GCR_C0_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 0
GCR_C1_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 1
GCR_C2_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 2
GCR_C3_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 3
GCR_C4_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 4
GCR_C5_RESET_BASE	Uns32	CMP system only: GCR_CL_RESET_BASE for core 5

GCR_C6.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 6
GCR_C7.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 7
GCR_C8.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 8
GCR_C9.RESET_BASE	Uns32	CMP system only: GCR_CL.RESET_BASE for core 9
GCR_C0.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 0
GCR_C1.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 1
GCR_C2.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 2
GCR_C3.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 3
GCR_C4.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 4
GCR_C5.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 5
GCR_C6.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 6
GCR_C7.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 7
GCR_C8.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 8
GCR_C9.RESET_EXT_BASE	Uns32	CMP system only: GCR_CL.RESET_EXT_BASE for core 9
CPC_C0.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 0
CPC_C1.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 1
CPC_C2.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 2
CPC_C3.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 3
CPC_C4.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 4
CPC_C5.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 5
CPC_C6.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 6
CPC_C7.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 7
CPC_C8.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 8
CPC_C9.VP_EN	Uns32	CMP system only: CPC.VP_EN for core 9
EIC.OPTION	Uns32	Override the external interrupt controller EIC.OPTION
hasImpl17	Boolean	Enable read/write of Impl17 bit in Status register
hasImpl16	Boolean	Enable read/write of Impl16 bit in Status register
ISPRAM.SIZE	Uns32	Encoded size of the ISPRAM region ( $\log_2(\text{ISPRAM size in bytes}) - 11$ )
ISPRAM.BASE	Uns64	Starting physical address of the ISPRAM region
ISPRAM.ENABLE	Boolean	Set the enable bit of the ISPRAM region's tag (used to enable the ISPRAM region prior to reset)
ISPRAM.FILE	String	Load a MIPS hex file into the ISPRAM region prior to reset
DSPRAM.SIZE	Uns32	Encoded size of the DSPRAM region ( $\log_2(\text{DSPRAM size in bytes}) - 11$ )
DSPRAM.BASE	Uns64	Starting physical address of the DSPRAM region
DSPRAM.ENABLE	Boolean	Set the enable bit of the DSPRAM region's tag (used to enable the DSPRAM region prior to reset)
DSPRAM.PRESENT	Boolean	DSPRAM is present with SAAR

USPRAM.SIZE	Uns32	Encoded size of the USPRAM region ( $\log_2(\langle \text{USPRAM size in bytes} \rangle) - 11$ )
USPRAM.BASE	Uns64	Starting physical address of the USPRAM region
USPRAM.ENABLE	Boolean	Set the enable bit of the USPRAM region's tag (used to enable the USPRAM region prior to reset)
USPRAM.FILE	String	Load a MIPS hex file into the USPRAM region prior to reset
misalignedDataException	Enumeration	Select misaligned data access exception signaling: never, checkCCA or always (never, checkCCA or always)
commitTlbwErr	Boolean	Commit TLBWI/TLBRI on ECC; in MIPS_DV_MODE only

Table 8.4: Parameters that can be set in: TC

## Chapter 9

# Execution Modes

<b>Mode</b>	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.1: Modes implemented in: CMP

<b>Mode</b>	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.2: Modes implemented in: CPU

<b>Mode</b>	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.3: Modes implemented in: VPE

<b>Mode</b>	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.4: Modes implemented in: TC

## Chapter 10

# Exceptions

Exception	Code
Int	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Bp	9
RI	10
CpU	11
Ov	12
Tr	13
FPE	15
Impl1	16
Impl2	17
C2E	18
TLBRI	19
TLBXI	20
MDMX	22
WATCH	23
MCheck	24
Thread	25
DSPDis	26
GE	27
Prot	29
CacheErr	30

Table 10.1: Exceptions implemented in: CMP

<b>Exception</b>	<b>Code</b>
Int	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Bp	9
RI	10
CpU	11
Ov	12
Tr	13
FPE	15
Impl1	16
Impl2	17
C2E	18
TLBRI	19
TLBXI	20
MDMX	22
WATCH	23
MCheck	24
Thread	25
DSPDis	26
GE	27
Prot	29
CacheErr	30

Table 10.2: Exceptions implemented in: CPU

<b>Exception</b>	<b>Code</b>
Int	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Bp	9
RI	10
CpU	11

Ov	12
Tr	13
FPE	15
Impl1	16
Impl2	17
C2E	18
TLBRI	19
TLBXI	20
MDMX	22
WATCH	23
MCheck	24
Thread	25
DSPDis	26
GE	27
Prot	29
CacheErr	30

Table 10.3: Exceptions implemented in: VPE

<b>Exception</b>	<b>Code</b>
Int	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Bp	9
RI	10
CpU	11
Ov	12
Tr	13
FPE	15
Impl1	16
Impl2	17
C2E	18
TLBRI	19
TLBXI	20
MDMX	22
WATCH	23
MCheck	24
Thread	25
DSPDis	26



GE	27
Prot	29
CacheErr	30

Table 10.4: Exceptions implemented in: TC

# Chapter 11

## Hierarchy of the model

A CPU core may be configured to instance many processors of a Symmetrical Multi Processor (SMP). A CPU core may also have sub elements within a processor, for example hardware threading blocks.

OVP processor models can be written to include SMP blocks and to have many levels of hierarchy. Some OVP CPU models may have a fixed hierarchy, and some may be configured by settings in a configuration register. Please see the register definitions of this model.

This model documentation shows the settings and hierarchy of the default settings for this model variant.

### 11.1 Level 1: CMP

This level in the model hierarchy has 2 commands.

This level in the model hierarchy has no register groups.

This level in the model hierarchy has 4 children:

CPU0, CPU1, CPU2 and CPU3.

### 11.2 Level 2: CPU

This level in the model hierarchy has 2 commands.

This level in the model hierarchy has one register group:

Group name	Registers
SPRAM	5

Table 11.1: Register groups

This level in the model hierarchy has 2 children:

CPU0\_VPE0 and CPU0\_VPE1.

### 11.3 Level 3: VPE

This level in the model hierarchy has 2 commands.

This level in the model hierarchy has 4 register groups:

<b>Group name</b>	Registers
COP0	86
CMP_GCR	46
CMP_CPC	11
CMP_GIC	1002

Table 11.2: Register groups

This level in the model hierarchy has one child:  
CPU0\_TC0

## 11.4 Level 4: TC

This level in the model hierarchy has 16 commands.

This level in the model hierarchy has 8 register groups:

<b>Group name</b>	Registers
Core	65
DSP	9
Shadow	64
COP0	101
CMP_GCR	46
CMP_CPC	11
CMP_GIC	1002
Integration_support	1

Table 11.3: Register groups

This level in the model hierarchy has no children.

# Chapter 12

## Model Commands

A Processor model can implement one or more **Model Commands** available to be invoked from the simulator command line, from the OP API or from the Imperas Multiprocessor Debugger.

### 12.1 Level 1: CMP

#### 12.1.1 isync

specify instruction address range for synchronous execution

Argument	Type	Description
-addresshi	Uns64	end address of synchronous execution range
-addresslo	Uns64	start address of synchronous execution range

Table 12.1: isync command arguments

#### 12.1.2 itrace

enable or disable instruction tracing

Argument	Type	Description
-after	Uns64	apply after this many instructions
-enable	Boolean	enable instruction tracing
-instructioncount	Boolean	include the instruction number in each trace
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-registerchange	Boolean	show registers changed by this instruction
-registers	Boolean	show registers after each trace

Table 12.2: itrace command arguments

### 12.2 Level 2: CPU

#### 12.2.1 isync

specify instruction address range for synchronous execution

Argument	Type	Description
-addresshi	Uns64	end address of synchronous execution range
-addresslo	Uns64	start address of synchronous execution range

Table 12.3: isync command arguments

### 12.2.2 itrace

enable or disable instruction tracing

Argument	Type	Description
-after	Uns64	apply after this many instructions
-enable	Boolean	enable instruction tracing
-instructioncount	Boolean	include the instruction number in each trace
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-registerchange	Boolean	show registers changed by this instruction
-registers	Boolean	show registers after each trace

Table 12.4: itrace command arguments

## 12.3 Level 3: VPE

### 12.3.1 isync

specify instruction address range for synchronous execution

Argument	Type	Description
-addresshi	Uns64	end address of synchronous execution range
-addresslo	Uns64	start address of synchronous execution range

Table 12.5: isync command arguments

### 12.3.2 itrace

enable or disable instruction tracing

Argument	Type	Description
-after	Uns64	apply after this many instructions
-enable	Boolean	enable instruction tracing
-instructioncount	Boolean	include the instruction number in each trace
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-registerchange	Boolean	show registers changed by this instruction
-registers	Boolean	show registers after each trace

Table 12.6: itrace command arguments

## 12.4 Level 4: TC

### 12.4.1 isync

specify instruction address range for synchronous execution

Argument	Type	Description
-addresshi	Uns64	end address of synchronous execution range
-addresslo	Uns64	start address of synchronous execution range

Table 12.7: isync command arguments

### 12.4.2 itrace

enable or disable instruction tracing

Argument	Type	Description
-after	Uns64	apply after this many instructions
-enable	Boolean	enable instruction tracing
-instructioncount	Boolean	include the instruction number in each trace
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-registerchange	Boolean	show registers changed by this instruction
-registers	Boolean	show registers after each trace

Table 12.8: itrace command arguments

### 12.4.3 mipsCOP0

query a COP0 register value using <register><select>

Argument	Type	Description
-register	Uns32	specify the COP0 register resource
-select	Uns32	specify the COP0 register select

Table 12.9: mipsCOP0 command arguments

### 12.4.4 mipsCacheDisable

#### 12.4.4.1 Argument description

Disables tag or full cache model

### 12.4.5 mipsCacheEnable

enable tag or full cache model

Argument	Type	Description
-debug	Int32	set cache model debug flags
-full	Boolean	enable full cache model
-tag	Boolean	enable cache tag line only model

Table 12.10: mipsCacheEnable command arguments

## 12.4.6 mipsCacheRatio

Report current hit ratio for selected cache

Argument	Type	Description
-dcache	Boolean	report hit ratio for dcache
-icache	Boolean	report hit ratio for icache

Table 12.11: mipsCacheRatio command arguments

## 12.4.7 mipsCacheReport

### 12.4.7.1 Argument description

Report current cache statistics

## 12.4.8 mipsCacheReset

### 12.4.8.1 Argument description

reset the cache model

## 12.4.9 mipsCacheTrace

Control the tracing of cache accesses

Argument	Type	Description
-noartifact	Boolean	
-nocached	Boolean	
-nodcache	Boolean	
-noicache	Boolean	
-notrue	Boolean	
-nouncached	Boolean	
-off	Boolean	turn off the cache tracing
-on	Boolean	turn on the cache tracing

Table 12.12: mipsCacheTrace command arguments

## 12.4.10 mipsDebugFlags

Set the mips model debug value

Argument	Type	Description
-value	Uns32	specify mips model debug flags

Table 12.13: mipsDebugFlags command arguments

### 12.4.11 mipsReadRegister

Read processor register using <resource><offset>

Argument	Type	Description
-offset	Uns32	the register offset
-resource	Uns32	the register resource

Table 12.14: mipsReadRegister command arguments

### 12.4.12 mipsReadTLBEntry

read a TLB entry specified by the index

Argument	Type	Description
-index	Uns64	select the TLB entry

Table 12.15: mipsReadTLBEntry command arguments

### 12.4.13 mipsTLBDump

#### 12.4.13.1 Argument description

Dumps the current contents of the TLB

### 12.4.14 mipsTLBGetPhys

Reports the entry(s) in the TLB that match the given virtual address and ASID

Argument	Type	Description
-asid	Uns64	ASID
-va	Uns64	virtual address

Table 12.16: mipsTLBGetPhys command arguments

### 12.4.15 mipsWriteRegister

Write processor register using <resource><offset><value>

Argument	Type	Description
-offset	Uns32	the register offset
-resource	Uns32	the register resource
-value	Uns64	the value to write to register

Table 12.17: mipsWriteRegister command arguments

### 12.4.16 mipsWriteTLBEntry

Writes values to a TLB entry using the index, lo0, lo1, hi0 and mask fields

Argument	Type	Description
----------	------	-------------



-hi0	Uns64	the TLB entry high address
-index	Uns64	the TLB entry index
-lo0	Uns64	the TLB entry low address 0
-lo1	Uns64	the TLB entry low address 1
-mask	Uns64	the TLB entry mask

Table 12.18: mipsWriteTLBEntry command arguments

# Chapter 13

## Registers

### 13.1 Level 1: CMP

No registers.

### 13.2 Level 2: CPU

#### 13.2.1 SPRAM

Registers at level:2, type:CPU group:SPRAM

Name	Bits	Initial-Hex	RW	Description
USPRAM.ENABLE	8	0	rw	
USPRAM.SIZE	8	0	rw	
USPRAM.BASE	64	0	rw	
USPRAM.FILE	64	-	-w	
USPRAM.WRITE	32	-	-w	

Table 13.1: Registers at level 2, type:CPU group:SPRAM

### 13.3 Level 3: VPE

#### 13.3.1 COP0

Registers at level:3, type:VPE group:COP0

Name	Bits	Initial-Hex	RW	Description
bad	32	0	rw	CP0 register 8/0 (badvaddr)
cause	32	0	rw	CP0 register 13/0 (cause)
index	32	0	rw	CP0 register 0/0
mvpcontrol	32	0	rw	CP0 register 0/1
mvpconf0	32	80008401	rw	CP0 register 0/2
mvpconf1	32	40000000	rw	CP0 register 0/3
vpecontrol	32	0	rw	CP0 register 1/1
vpeconf0	32	800f0003	rw	CP0 register 1/2
vpeconf1	32	0	rw	CP0 register 1/3
yqmask	32	0	rw	CP0 register 1/4
vpeschedule	32	0	rw	CP0 register 1/5
vpescheback	32	0	rw	CP0 register 1/6

vpeopt	32	0	rw	CP0 register 1/7
entrylo0	32	0	rw	CP0 register 2/0
entrylo1	32	0	rw	CP0 register 3/0
context	32	0	rw	CP0 register 4/0
contextconfig	32	7ffff0	rw	CP0 register 4/1
pagemask	32	0	rw	CP0 register 5/0
pagegrain	32	c8000000	rw	CP0 register 5/1
segctl0	32	200010	rw	CP0 register 5/2
segctl1	32	30002	rw	CP0 register 5/3
segctl2	32	380438	rw	CP0 register 5/4
wired	32	0	rw	CP0 register 6/0
srsconf0	32	3ffffff	rw	CP0 register 6/1
hwrena	32	0	rw	CP0 register 7/0
badvaddr	32	0	rw	CP0 register 8/0
badinstr	32	0	rw	CP0 register 8/1
badinstrx	32	0	rw	CP0 register 8/3
count	32	0	rw	CP0 register 9/0
compare	32	0	rw	CP0 register 11/0
intctl	32	e0000000	rw	CP0 register 12/1
srctl	32	0	rw	CP0 register 12/2
srsmap	32	0	rw	CP0 register 12/3
epc	32	0	rw	CP0 register 14/0
prid	32	1b200	rw	CP0 register 15/0
ebase	32	80000000	rw	CP0 register 15/1
cdmmbase	32	2	rw	CP0 register 15/2
cmgrcbase	32	1bf800	rw	CP0 register 15/3
bevva	32	bfc00000	rw	CP0 register 15/4
config	32	80040882	rw	CP0 register 16/0
config1	32	9ea35192	rw	CP0 register 16/1
config2	32	80000000	rw	CP0 register 16/2
config3	32	a60d7e2d	rw	CP0 register 16/3
config4	32	c0fc0000	rw	CP0 register 16/4
config5	32	10100430	rw	CP0 register 16/5
config7	32	4120	rw	CP0 register 16/7
bcopcontrol	32	0	rw	CP0 register 22/0
spramcontrol	32	8	rw	CP0 register 22/3
tracecontrol	32	0	rw	CP0 register 23/1
tracecontrol2	32	0	rw	CP0 register 23/2
usertracedata	32	0	rw	CP0 register 23/3
traceibpc	32	0	rw	CP0 register 23/4
tracedbpc	32	0	rw	CP0 register 23/5
ibp2_3_action	32	0	rw	CP0 register 23/7
depc	32	0	rw	CP0 register 24/0
dbp2_3.action	32	0	rw	CP0 register 24/1
tracecontrol3	32	0	rw	CP0 register 24/2
usertracedata2	32	0	rw	CP0 register 24/3
tcbconfig	32	0	rw	CP0 register 24/4
tcbcontrole	32	0	rw	CP0 register 24/5
ibp4_5_action	32	0	rw	CP0 register 24/6
ibp6_7_action	32	0	rw	CP0 register 24/7
perfctl0	32	80008000	rw	CP0 register 25/0
perfent0	32	0	rw	CP0 register 25/1
perfctl1	32	80008000	rw	CP0 register 25/2
perfent1	32	0	rw	CP0 register 25/3
perfctl2	32	80008000	rw	CP0 register 25/4
perfent2	32	0	rw	CP0 register 25/5

perfctl3	32	8000	rw	CP0 register 25/6
perfent3	32	0	rw	CP0 register 25/7
errctl	32	0	rw	CP0 register 26/0
tcbcontrold	32	0	rw	CP0 register 26/4
itaglo	32	0	rw	CP0 register 28/0
idatalo	32	0	rw	CP0 register 28/1
dtaglo	32	0	rw	CP0 register 28/2
ddatalo	32	0	rw	CP0 register 28/3
idatahi	32	0	rw	CP0 register 29/1
dtaghi	32	0	rw	CP0 register 29/2
errorepc	32	0	rw	CP0 register 30/0
desave	32	0	rw	CP0 register 31/0
kscratch1	32	0	rw	CP0 register 31/2
kscratch2	32	0	rw	CP0 register 31/3
kscratch3	32	0	rw	CP0 register 31/4
kscratch4	32	0	rw	CP0 register 31/5
kscratch5	32	0	rw	CP0 register 31/6
kscratch6	32	0	rw	CP0 register 31/7

Table 13.2: Registers at level 3, type:VPE group:COPO

### 13.3.2 CMP\_GCR

Registers at level:3, type:VPE group:CMP\_GCR

Name	Bits	Initial-Hex	RW	Description
GCR_CONFIG	32	3	r-	
GCR_BASE	32	1fbf8000	rw	
GCR_BASE_UPPER	32	0	rw	
GCR_CONTROL	32	c21	rw	
GCR_ACCESS	32	ff	rw	
GCR_REV	32	0	r-	
GCR_ERROR_MASK	32	0	rw	
GCR_ERROR_CAUSE	32	0	rw	
GCR_ERROR_ADDR	32	0	rw	
GCR_ERROR_ADDR_UPPER	32	0	rw	
GCR_ERROR_MULT	32	0	rw	
GCR_CUSTOM_BASE	32	0	rw	
GCR_CUSTOM_BASE_UPPER	32	0	rw	
GCR_CUSTOM_STATUS	32	0	r-	
GCR_GIC_BASE	32	0	rw	
GCR_GIC_BASE_UPPER	32	0	rw	
GCR_CPC_BASE	32	0	rw	
GCR_CPC_BASE_UPPER	32	0	rw	
GCR_GIC_STATUS	32	1	r-	
GCR_CACHE_REV	32	0	r-	
GCR_CPC_STATUS	32	1	r-	
GCR_L2_CONFIG	32	80000000	rw	
GCR_SYS_CONFIG2	32	0	r-	
GCR_IOCUI_REV	32	0	r-	
GCR_L2_RAM_CONFIG	32	0	r-	
GCR_L2_TAG_ADDR	32	0	rw	
GCR_L2_TAG_STATE	32	80	rw	
GCR_L2_TAG_STATE_UPPER	32	0	rw	
GCR_L2_DATA	32	0	rw	
GCR_L2_DATA_UPPER	32	0	rw	

GCR_L2_ECC	32	0	rw	
GCR_L2_ECC_UPPER	32	0	rw	
GCR_CL_RESET_RELEASE	32	0	-w	
GCR_CL_COHERENCE	32	0	rw	
GCR_CL_CONFIG	32	1	r-	
GCR_CL_OTHER	32	0	rw	
GCR_CL_RESET_BASE	32	bfc00000	rw	
GCR_CL_ID	32	0	r-	
GCR_CL_RESET_EXT_BASE	32	40000001	rw	
GCR_CO_RESET_RELEASE	32	0	-w	
GCR_CO_COHERENCE	32	0	rw	
GCR_CO_CONFIG	32	1	r-	
GCR_CO_OTHER	32	0	rw	
GCR_CO_RESET_BASE	32	bfc00000	rw	
GCR_CO_ID	32	0	r-	
GCR_CO_RESET_EXT_BASE	32	40000001	rw	

Table 13.3: Registers at level 3, type:VPE group:CMP\_GCR

### 13.3.3 CMP\_CPC

Registers at level:3, type:VPE group:CMP\_CPC

Name	Bits	Initial-Hex	RW	Description
CPC_ACCESS	32	ff	rw	
CPC_SEQDEL	32	0	rw	
CPC_RAIL	32	0	rw	
CPC_RESETLEN	32	0	rw	
CPC_REVISION	32	0	r-	
CPC_CMD	32	3	rw	
CPC_STAT_CONF	32	300200	rw	
CPC_OTHER	32	0	rw	
CPC_CMD	32	3	rw	
CPC_STAT_CONF	32	300200	rw	
CPC_OTHER	32	0	rw	

Table 13.4: Registers at level 3, type:VPE group:CMP\_CPC

### 13.3.4 CMP\_GIC

Registers at level:3, type:VPE group:CMP\_GIC

Name	Bits	Initial-Hex	RW	Description
GIC_SH_CONFIG	32	8040007	rw	
GIC_CounterLo	32	0	rw	
GIC_CounterHi	32	0	rw	
GIC_SH_REVISION	32	0	r-	
GIC_SH_POL31_0	32	0	rw	
GIC_SH_POL63_32	32	0	rw	
GIC_SH_POL95_64	32	0	rw	
GIC_SH_POL127_96	32	0	rw	
GIC_SH_POL159_128	32	0	rw	
GIC_SH_POL191_160	32	0	rw	
GIC_SH_POL223_192	32	0	rw	
GIC_SH_POL255_224	32	0	rw	

GIC_SH_TRIG31_0	32	0	rw	
GIC_SH_TRIG63_32	32	0	rw	
GIC_SH_TRIG95_64	32	0	rw	
GIC_SH_TRIG127_96	32	0	rw	
GIC_SH_TRIG159_128	32	0	rw	
GIC_SH_TRIG191_160	32	0	rw	
GIC_SH_TRIG223_192	32	0	rw	
GIC_SH_TRIG255_224	32	0	rw	
GIC_SH_DUAL31_0	32	0	rw	
GIC_SH_DUAL63_32	32	0	rw	
GIC_SH_DUAL95_64	32	0	rw	
GIC_SH_DUAL127_96	32	0	rw	
GIC_SH_DUAL159_128	32	0	rw	
GIC_SH_DUAL191_160	32	0	rw	
GIC_SH_DUAL223_192	32	0	rw	
GIC_SH_DUAL255_224	32	0	rw	
GIC_SH_WEDGE	32	0	-w	
GIC_SH_RMASK31_0	32	0	-w	
GIC_SH_RMASK63_32	32	0	-w	
GIC_SH_RMASK95_64	32	0	-w	
GIC_SH_RMASK127_96	32	0	-w	
GIC_SH_RMASK159_128	32	0	-w	
GIC_SH_RMASK191_160	32	0	-w	
GIC_SH_RMASK223_192	32	0	-w	
GIC_SH_RMASK255_224	32	0	-w	
GIC_SH_SMASK31_0	32	0	-w	
GIC_SH_SMASK63_32	32	0	-w	
GIC_SH_SMASK95_64	32	0	-w	
GIC_SH_SMASK127_96	32	0	-w	
GIC_SH_SMASK159_128	32	0	-w	
GIC_SH_SMASK191_160	32	0	-w	
GIC_SH_SMASK223_192	32	0	-w	
GIC_SH_SMASK255_224	32	0	-w	
GIC_SH_MASK31_0	32	0	r-	
GIC_SH_MASK63_32	32	0	r-	
GIC_SH_MASK95_64	32	0	r-	
GIC_SH_MASK127_96	32	0	r-	
GIC_SH_MASK159_128	32	0	r-	
GIC_SH_MASK191_160	32	0	r-	
GIC_SH_MASK223_192	32	0	r-	
GIC_SH_MASK255_224	32	0	r-	
GIC_SH_PEND31_0	32	0	r-	
GIC_SH_PEND63_32	32	0	r-	
GIC_SH_PEND95_64	32	0	r-	
GIC_SH_PEND127_96	32	0	r-	
GIC_SH_PEND159_128	32	0	r-	
GIC_SH_PEND191_160	32	0	r-	
GIC_SH_PEND223_192	32	0	r-	
GIC_SH_PEND255_224	32	0	r-	
GIC_SH_MAP000_PIN	32	80000000	rw	
GIC_SH_MAP001_PIN	32	80000000	rw	
GIC_SH_MAP002_PIN	32	80000000	rw	
GIC_SH_MAP003_PIN	32	80000000	rw	
GIC_SH_MAP004_PIN	32	80000000	rw	
GIC_SH_MAP005_PIN	32	80000000	rw	
GIC_SH_MAP006_PIN	32	80000000	rw	

GIC_SH_MAP007_PIN	32	80000000	rw	
GIC_SH_MAP008_PIN	32	80000000	rw	
GIC_SH_MAP009_PIN	32	80000000	rw	
GIC_SH_MAP010_PIN	32	80000000	rw	
GIC_SH_MAP011_PIN	32	80000000	rw	
GIC_SH_MAP012_PIN	32	80000000	rw	
GIC_SH_MAP013_PIN	32	80000000	rw	
GIC_SH_MAP014_PIN	32	80000000	rw	
GIC_SH_MAP015_PIN	32	80000000	rw	
GIC_SH_MAP016_PIN	32	80000000	rw	
GIC_SH_MAP017_PIN	32	80000000	rw	
GIC_SH_MAP018_PIN	32	80000000	rw	
GIC_SH_MAP019_PIN	32	80000000	rw	
GIC_SH_MAP020_PIN	32	80000000	rw	
GIC_SH_MAP021_PIN	32	80000000	rw	
GIC_SH_MAP022_PIN	32	80000000	rw	
GIC_SH_MAP023_PIN	32	80000000	rw	
GIC_SH_MAP024_PIN	32	80000000	rw	
GIC_SH_MAP025_PIN	32	80000000	rw	
GIC_SH_MAP026_PIN	32	80000000	rw	
GIC_SH_MAP027_PIN	32	80000000	rw	
GIC_SH_MAP028_PIN	32	80000000	rw	
GIC_SH_MAP029_PIN	32	80000000	rw	
GIC_SH_MAP030_PIN	32	80000000	rw	
GIC_SH_MAP031_PIN	32	80000000	rw	
GIC_SH_MAP032_PIN	32	80000000	rw	
GIC_SH_MAP033_PIN	32	80000000	rw	
GIC_SH_MAP034_PIN	32	80000000	rw	
GIC_SH_MAP035_PIN	32	80000000	rw	
GIC_SH_MAP036_PIN	32	80000000	rw	
GIC_SH_MAP037_PIN	32	80000000	rw	
GIC_SH_MAP038_PIN	32	80000000	rw	
GIC_SH_MAP039_PIN	32	80000000	rw	
GIC_SH_MAP040_PIN	32	0	rw	
GIC_SH_MAP041_PIN	32	0	rw	
GIC_SH_MAP042_PIN	32	0	rw	
GIC_SH_MAP043_PIN	32	0	rw	
GIC_SH_MAP044_PIN	32	0	rw	
GIC_SH_MAP045_PIN	32	0	rw	
GIC_SH_MAP046_PIN	32	0	rw	
GIC_SH_MAP047_PIN	32	0	rw	
GIC_SH_MAP048_PIN	32	0	rw	
GIC_SH_MAP049_PIN	32	0	rw	
GIC_SH_MAP050_PIN	32	0	rw	
GIC_SH_MAP051_PIN	32	0	rw	
GIC_SH_MAP052_PIN	32	0	rw	
GIC_SH_MAP053_PIN	32	0	rw	
GIC_SH_MAP054_PIN	32	0	rw	
GIC_SH_MAP055_PIN	32	0	rw	
GIC_SH_MAP056_PIN	32	0	rw	
GIC_SH_MAP057_PIN	32	0	rw	
GIC_SH_MAP058_PIN	32	0	rw	
GIC_SH_MAP059_PIN	32	0	rw	
GIC_SH_MAP060_PIN	32	0	rw	
GIC_SH_MAP061_PIN	32	0	rw	
GIC_SH_MAP062_PIN	32	0	rw	

GIC_SH_MAP063_PIN	32	0	rw	
GIC_SH_MAP064_PIN	32	0	rw	
GIC_SH_MAP065_PIN	32	0	rw	
GIC_SH_MAP066_PIN	32	0	rw	
GIC_SH_MAP067_PIN	32	0	rw	
GIC_SH_MAP068_PIN	32	0	rw	
GIC_SH_MAP069_PIN	32	0	rw	
GIC_SH_MAP070_PIN	32	0	rw	
GIC_SH_MAP071_PIN	32	0	rw	
GIC_SH_MAP072_PIN	32	0	rw	
GIC_SH_MAP073_PIN	32	0	rw	
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GIC_SH_MAP076_PIN	32	0	rw	
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GIC_SH_MAP078_PIN	32	0	rw	
GIC_SH_MAP079_PIN	32	0	rw	
GIC_SH_MAP080_PIN	32	0	rw	
GIC_SH_MAP081_PIN	32	0	rw	
GIC_SH_MAP082_PIN	32	0	rw	
GIC_SH_MAP083_PIN	32	0	rw	
GIC_SH_MAP084_PIN	32	0	rw	
GIC_SH_MAP085_PIN	32	0	rw	
GIC_SH_MAP086_PIN	32	0	rw	
GIC_SH_MAP087_PIN	32	0	rw	
GIC_SH_MAP088_PIN	32	0	rw	
GIC_SH_MAP089_PIN	32	0	rw	
GIC_SH_MAP090_PIN	32	0	rw	
GIC_SH_MAP091_PIN	32	0	rw	
GIC_SH_MAP092_PIN	32	0	rw	
GIC_SH_MAP093_PIN	32	0	rw	
GIC_SH_MAP094_PIN	32	0	rw	
GIC_SH_MAP095_PIN	32	0	rw	
GIC_SH_MAP096_PIN	32	0	rw	
GIC_SH_MAP097_PIN	32	0	rw	
GIC_SH_MAP098_PIN	32	0	rw	
GIC_SH_MAP099_PIN	32	0	rw	
GIC_SH_MAP100_PIN	32	0	rw	
GIC_SH_MAP101_PIN	32	0	rw	
GIC_SH_MAP102_PIN	32	0	rw	
GIC_SH_MAP103_PIN	32	0	rw	
GIC_SH_MAP104_PIN	32	0	rw	
GIC_SH_MAP105_PIN	32	0	rw	
GIC_SH_MAP106_PIN	32	0	rw	
GIC_SH_MAP107_PIN	32	0	rw	
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GIC_SH_MAP110_PIN	32	0	rw	
GIC_SH_MAP111_PIN	32	0	rw	
GIC_SH_MAP112_PIN	32	0	rw	
GIC_SH_MAP113_PIN	32	0	rw	
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GIC_SH_MAP115_PIN	32	0	rw	
GIC_SH_MAP116_PIN	32	0	rw	
GIC_SH_MAP117_PIN	32	0	rw	
GIC_SH_MAP118_PIN	32	0	rw	



GIC.SH_MAP119.PIN	32	0	rw	
GIC.SH_MAP120.PIN	32	0	rw	
GIC.SH_MAP121.PIN	32	0	rw	
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GIC.SH_MAP124.PIN	32	0	rw	
GIC.SH_MAP125.PIN	32	0	rw	
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GIC.SH_MAP173.PIN	32	0	rw	
GIC.SH_MAP174.PIN	32	0	rw	

GIC.SH_MAP175_PIN	32	0	rw	
GIC.SH_MAP176_PIN	32	0	rw	
GIC.SH_MAP177_PIN	32	0	rw	
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GIC.SH_MAP179_PIN	32	0	rw	
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GIC.SH_MAP206_PIN	32	0	rw	
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GIC.SH_MAP211_PIN	32	0	rw	
GIC.SH_MAP212_PIN	32	0	rw	
GIC.SH_MAP213_PIN	32	0	rw	
GIC.SH_MAP214_PIN	32	0	rw	
GIC.SH_MAP215_PIN	32	0	rw	
GIC.SH_MAP216_PIN	32	0	rw	
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GIC.SH_MAP223_PIN	32	0	rw	
GIC.SH_MAP224_PIN	32	0	rw	
GIC.SH_MAP225_PIN	32	0	rw	
GIC.SH_MAP226_PIN	32	0	rw	
GIC.SH_MAP227_PIN	32	0	rw	
GIC.SH_MAP228_PIN	32	0	rw	
GIC.SH_MAP229_PIN	32	0	rw	
GIC.SH_MAP230_PIN	32	0	rw	

GIC.SH_MAP231_PIN	32	0	rw
GIC.SH_MAP232_PIN	32	0	rw
GIC.SH_MAP233_PIN	32	0	rw
GIC.SH_MAP234_PIN	32	0	rw
GIC.SH_MAP235_PIN	32	0	rw
GIC.SH_MAP236_PIN	32	0	rw
GIC.SH_MAP237_PIN	32	0	rw
GIC.SH_MAP238_PIN	32	0	rw
GIC.SH_MAP239_PIN	32	0	rw
GIC.SH_MAP240_PIN	32	0	rw
GIC.SH_MAP241_PIN	32	0	rw
GIC.SH_MAP242_PIN	32	0	rw
GIC.SH_MAP243_PIN	32	0	rw
GIC.SH_MAP244_PIN	32	0	rw
GIC.SH_MAP245_PIN	32	0	rw
GIC.SH_MAP246_PIN	32	0	rw
GIC.SH_MAP247_PIN	32	0	rw
GIC.SH_MAP248_PIN	32	0	rw
GIC.SH_MAP249_PIN	32	0	rw
GIC.SH_MAP250_PIN	32	0	rw
GIC.SH_MAP251_PIN	32	0	rw
GIC.SH_MAP252_PIN	32	0	rw
GIC.SH_MAP253_PIN	32	0	rw
GIC.SH_MAP254_PIN	32	0	rw
GIC.SH_MAP255_PIN	32	0	rw
GIC.SH_MAP000_VPE31_0	32	0	rw
GIC.SH_MAP001_VPE31_0	32	0	rw
GIC.SH_MAP002_VPE31_0	32	0	rw
GIC.SH_MAP003_VPE31_0	32	0	rw
GIC.SH_MAP004_VPE31_0	32	0	rw
GIC.SH_MAP005_VPE31_0	32	0	rw
GIC.SH_MAP006_VPE31_0	32	0	rw
GIC.SH_MAP007_VPE31_0	32	0	rw
GIC.SH_MAP008_VPE31_0	32	0	rw
GIC.SH_MAP009_VPE31_0	32	0	rw
GIC.SH_MAP010_VPE31_0	32	0	rw
GIC.SH_MAP011_VPE31_0	32	0	rw
GIC.SH_MAP012_VPE31_0	32	0	rw
GIC.SH_MAP013_VPE31_0	32	0	rw
GIC.SH_MAP014_VPE31_0	32	0	rw
GIC.SH_MAP015_VPE31_0	32	0	rw
GIC.SH_MAP016_VPE31_0	32	0	rw
GIC.SH_MAP017_VPE31_0	32	0	rw
GIC.SH_MAP018_VPE31_0	32	0	rw
GIC.SH_MAP019_VPE31_0	32	0	rw
GIC.SH_MAP020_VPE31_0	32	0	rw
GIC.SH_MAP021_VPE31_0	32	0	rw
GIC.SH_MAP022_VPE31_0	32	0	rw
GIC.SH_MAP023_VPE31_0	32	0	rw
GIC.SH_MAP024_VPE31_0	32	0	rw
GIC.SH_MAP025_VPE31_0	32	0	rw
GIC.SH_MAP026_VPE31_0	32	0	rw
GIC.SH_MAP027_VPE31_0	32	0	rw
GIC.SH_MAP028_VPE31_0	32	0	rw
GIC.SH_MAP029_VPE31_0	32	0	rw
GIC.SH_MAP030_VPE31_0	32	0	rw

GIC_SH_MAP031_VPE31_0	32	0	rw	
GIC_SH_MAP032_VPE31_0	32	0	rw	
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GIC_SH_MAP035_VPE31_0	32	0	rw	
GIC_SH_MAP036_VPE31_0	32	0	rw	
GIC_SH_MAP037_VPE31_0	32	0	rw	
GIC_SH_MAP038_VPE31_0	32	0	rw	
GIC_SH_MAP039_VPE31_0	32	0	rw	
GIC_SH_MAP040_VPE31_0	32	0	rw	
GIC_SH_MAP041_VPE31_0	32	0	rw	
GIC_SH_MAP042_VPE31_0	32	0	rw	
GIC_SH_MAP043_VPE31_0	32	0	rw	
GIC_SH_MAP044_VPE31_0	32	0	rw	
GIC_SH_MAP045_VPE31_0	32	0	rw	
GIC_SH_MAP046_VPE31_0	32	0	rw	
GIC_SH_MAP047_VPE31_0	32	0	rw	
GIC_SH_MAP048_VPE31_0	32	0	rw	
GIC_SH_MAP049_VPE31_0	32	0	rw	
GIC_SH_MAP050_VPE31_0	32	0	rw	
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GIC_SH_MAP052_VPE31_0	32	0	rw	
GIC_SH_MAP053_VPE31_0	32	0	rw	
GIC_SH_MAP054_VPE31_0	32	0	rw	
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GIC_SH_MAP061_VPE31_0	32	0	rw	
GIC_SH_MAP062_VPE31_0	32	0	rw	
GIC_SH_MAP063_VPE31_0	32	0	rw	
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GIC_SH_MAP086_VPE31_0	32	0	rw	

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GIC_SH_MAP096_VPE31_0	32	0	rw
GIC_SH_MAP097_VPE31_0	32	0	rw
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GIC_SH_MAP053_VPE63_32	32	0	rw
GIC_SH_MAP054_VPE63_32	32	0	rw



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GIC_SH_MAP105_VPE63_32	32	0	rw
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GIC_SH_MAP109_VPE63_32	32	0	rw
GIC_SH_MAP110_VPE63_32	32	0	rw

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GIC.SH_MAP134.VPE63_32	32	0	rw
GIC.SH_MAP135.VPE63_32	32	0	rw
GIC.SH_MAP136.VPE63_32	32	0	rw
GIC.SH_MAP137.VPE63_32	32	0	rw
GIC.SH_MAP138.VPE63_32	32	0	rw
GIC.SH_MAP139.VPE63_32	32	0	rw
GIC.SH_MAP140.VPE63_32	32	0	rw
GIC.SH_MAP141.VPE63_32	32	0	rw
GIC.SH_MAP142.VPE63_32	32	0	rw
GIC.SH_MAP143.VPE63_32	32	0	rw
GIC.SH_MAP144.VPE63_32	32	0	rw
GIC.SH_MAP145.VPE63_32	32	0	rw
GIC.SH_MAP146.VPE63_32	32	0	rw
GIC.SH_MAP147.VPE63_32	32	0	rw
GIC.SH_MAP148.VPE63_32	32	0	rw
GIC.SH_MAP149.VPE63_32	32	0	rw
GIC.SH_MAP150.VPE63_32	32	0	rw
GIC.SH_MAP151.VPE63_32	32	0	rw
GIC.SH_MAP152.VPE63_32	32	0	rw
GIC.SH_MAP153.VPE63_32	32	0	rw
GIC.SH_MAP154.VPE63_32	32	0	rw
GIC.SH_MAP155.VPE63_32	32	0	rw
GIC.SH_MAP156.VPE63_32	32	0	rw
GIC.SH_MAP157.VPE63_32	32	0	rw
GIC.SH_MAP158.VPE63_32	32	0	rw
GIC.SH_MAP159.VPE63_32	32	0	rw
GIC.SH_MAP160.VPE63_32	32	0	rw
GIC.SH_MAP161.VPE63_32	32	0	rw
GIC.SH_MAP162.VPE63_32	32	0	rw
GIC.SH_MAP163.VPE63_32	32	0	rw
GIC.SH_MAP164.VPE63_32	32	0	rw
GIC.SH_MAP165.VPE63_32	32	0	rw
GIC.SH_MAP166.VPE63_32	32	0	rw

GIC_SH_MAP167_VPE63_32	32	0	rw	
GIC_SH_MAP168_VPE63_32	32	0	rw	
GIC_SH_MAP169_VPE63_32	32	0	rw	
GIC_SH_MAP170_VPE63_32	32	0	rw	
GIC_SH_MAP171_VPE63_32	32	0	rw	
GIC_SH_MAP172_VPE63_32	32	0	rw	
GIC_SH_MAP173_VPE63_32	32	0	rw	
GIC_SH_MAP174_VPE63_32	32	0	rw	
GIC_SH_MAP175_VPE63_32	32	0	rw	
GIC_SH_MAP176_VPE63_32	32	0	rw	
GIC_SH_MAP177_VPE63_32	32	0	rw	
GIC_SH_MAP178_VPE63_32	32	0	rw	
GIC_SH_MAP179_VPE63_32	32	0	rw	
GIC_SH_MAP180_VPE63_32	32	0	rw	
GIC_SH_MAP181_VPE63_32	32	0	rw	
GIC_SH_MAP182_VPE63_32	32	0	rw	
GIC_SH_MAP183_VPE63_32	32	0	rw	
GIC_SH_MAP184_VPE63_32	32	0	rw	
GIC_SH_MAP185_VPE63_32	32	0	rw	
GIC_SH_MAP186_VPE63_32	32	0	rw	
GIC_SH_MAP187_VPE63_32	32	0	rw	
GIC_SH_MAP188_VPE63_32	32	0	rw	
GIC_SH_MAP189_VPE63_32	32	0	rw	
GIC_SH_MAP190_VPE63_32	32	0	rw	
GIC_SH_MAP191_VPE63_32	32	0	rw	
GIC_SH_MAP192_VPE63_32	32	0	rw	
GIC_SH_MAP193_VPE63_32	32	0	rw	
GIC_SH_MAP194_VPE63_32	32	0	rw	
GIC_SH_MAP195_VPE63_32	32	0	rw	
GIC_SH_MAP196_VPE63_32	32	0	rw	
GIC_SH_MAP197_VPE63_32	32	0	rw	
GIC_SH_MAP198_VPE63_32	32	0	rw	
GIC_SH_MAP199_VPE63_32	32	0	rw	
GIC_SH_MAP200_VPE63_32	32	0	rw	
GIC_SH_MAP201_VPE63_32	32	0	rw	
GIC_SH_MAP202_VPE63_32	32	0	rw	
GIC_SH_MAP203_VPE63_32	32	0	rw	
GIC_SH_MAP204_VPE63_32	32	0	rw	
GIC_SH_MAP205_VPE63_32	32	0	rw	
GIC_SH_MAP206_VPE63_32	32	0	rw	
GIC_SH_MAP207_VPE63_32	32	0	rw	
GIC_SH_MAP208_VPE63_32	32	0	rw	
GIC_SH_MAP209_VPE63_32	32	0	rw	
GIC_SH_MAP210_VPE63_32	32	0	rw	
GIC_SH_MAP211_VPE63_32	32	0	rw	
GIC_SH_MAP212_VPE63_32	32	0	rw	
GIC_SH_MAP213_VPE63_32	32	0	rw	
GIC_SH_MAP214_VPE63_32	32	0	rw	
GIC_SH_MAP215_VPE63_32	32	0	rw	
GIC_SH_MAP216_VPE63_32	32	0	rw	
GIC_SH_MAP217_VPE63_32	32	0	rw	
GIC_SH_MAP218_VPE63_32	32	0	rw	
GIC_SH_MAP219_VPE63_32	32	0	rw	
GIC_SH_MAP220_VPE63_32	32	0	rw	
GIC_SH_MAP221_VPE63_32	32	0	rw	
GIC_SH_MAP222_VPE63_32	32	0	rw	

GIC.SH_MAP223_VPE63_32	32	0	rw
GIC.SH_MAP224_VPE63_32	32	0	rw
GIC.SH_MAP225_VPE63_32	32	0	rw
GIC.SH_MAP226_VPE63_32	32	0	rw
GIC.SH_MAP227_VPE63_32	32	0	rw
GIC.SH_MAP228_VPE63_32	32	0	rw
GIC.SH_MAP229_VPE63_32	32	0	rw
GIC.SH_MAP230_VPE63_32	32	0	rw
GIC.SH_MAP231_VPE63_32	32	0	rw
GIC.SH_MAP232_VPE63_32	32	0	rw
GIC.SH_MAP233_VPE63_32	32	0	rw
GIC.SH_MAP234_VPE63_32	32	0	rw
GIC.SH_MAP235_VPE63_32	32	0	rw
GIC.SH_MAP236_VPE63_32	32	0	rw
GIC.SH_MAP237_VPE63_32	32	0	rw
GIC.SH_MAP238_VPE63_32	32	0	rw
GIC.SH_MAP239_VPE63_32	32	0	rw
GIC.SH_MAP240_VPE63_32	32	0	rw
GIC.SH_MAP241_VPE63_32	32	0	rw
GIC.SH_MAP242_VPE63_32	32	0	rw
GIC.SH_MAP243_VPE63_32	32	0	rw
GIC.SH_MAP244_VPE63_32	32	0	rw
GIC.SH_MAP245_VPE63_32	32	0	rw
GIC.SH_MAP246_VPE63_32	32	0	rw
GIC.SH_MAP247_VPE63_32	32	0	rw
GIC.SH_MAP248_VPE63_32	32	0	rw
GIC.SH_MAP249_VPE63_32	32	0	rw
GIC.SH_MAP250_VPE63_32	32	0	rw
GIC.SH_MAP251_VPE63_32	32	0	rw
GIC.SH_MAP252_VPE63_32	32	0	rw
GIC.SH_MAP253_VPE63_32	32	0	rw
GIC.SH_MAP254_VPE63_32	32	0	rw
GIC.SH_MAP255_VPE63_32	32	0	rw
GIC.VB.DINT_SEND	32	0	-w
GIC.VPE.CTL	32	a	rw
GIC.VPE.PEND	32	0	r-
GIC.VPE.MASK	32	7f	r-
GIC.VPE.RMASK	32	0	-w
GIC.VPE.SMASK	32	0	-w
GIC.VPE.WD_MAP	32	40000000	rw
GIC.VPE.COMPARE_MAP	32	80000000	rw
GIC.VPE.TIMER_MAP	32	80000005	rw
GIC.VPE.FDC_MAP	32	80000005	rw
GIC.VPE.PERFCTR_MAP	32	80000005	rw
GIC.VPE.SWInt0_MAP	32	80000000	rw
GIC.VPE.SWInt1_MAP	32	80000000	rw
GIC.VPE.OTHER_ADDRESS	32	0	rw
GIC.VPE.IDENT	32	0	r-
GIC.VPE.WD_CONFIG	32	0	rw
GIC.VPE.WD_COUNT	32	0	r-
GIC.VPE.WD_INITIAL	32	0	rw
GIC.VPE.CompareLo	32	ffffff	rw
GIC.VPE.CompareHi	32	ffffff	rw
GIC.VPE.EICSS00	32	0	rw
GIC.VPE.EICSS01	32	0	rw
GIC.VPE.EICSS02	32	0	rw

GIC_VPE.EICSS03	32	0	rw	
GIC_VPE.EICSS04	32	0	rw	
GIC_VPE.EICSS05	32	0	rw	
GIC_VPE.EICSS06	32	0	rw	
GIC_VPE.EICSS07	32	0	rw	
GIC_VPE.EICSS08	32	0	rw	
GIC_VPE.EICSS09	32	0	rw	
GIC_VPE.EICSS10	32	0	rw	
GIC_VPE.EICSS11	32	0	rw	
GIC_VPE.EICSS12	32	0	rw	
GIC_VPE.EICSS13	32	0	rw	
GIC_VPE.EICSS14	32	0	rw	
GIC_VPE.EICSS15	32	0	rw	
GIC_VPE.EICSS16	32	0	rw	
GIC_VPE.EICSS17	32	0	rw	
GIC_VPE.EICSS18	32	0	rw	
GIC_VPE.EICSS19	32	0	rw	
GIC_VPE.EICSS20	32	0	rw	
GIC_VPE.EICSS21	32	0	rw	
GIC_VPE.EICSS22	32	0	rw	
GIC_VPE.EICSS23	32	0	rw	
GIC_VPE.EICSS24	32	0	rw	
GIC_VPE.EICSS25	32	0	rw	
GIC_VPE.EICSS26	32	0	rw	
GIC_VPE.EICSS27	32	0	rw	
GIC_VPE.EICSS28	32	0	rw	
GIC_VPE.EICSS29	32	0	rw	
GIC_VPE.EICSS30	32	0	rw	
GIC_VPE.EICSS31	32	0	rw	
GIC_VPE.EICSS32	32	0	rw	
GIC_VPE.EICSS33	32	0	rw	
GIC_VPE.EICSS34	32	0	rw	
GIC_VPE.EICSS35	32	0	rw	
GIC_VPE.EICSS36	32	0	rw	
GIC_VPE.EICSS37	32	0	rw	
GIC_VPE.EICSS38	32	0	rw	
GIC_VPE.EICSS39	32	0	rw	
GIC_VPE.EICSS40	32	0	rw	
GIC_VPE.EICSS41	32	0	rw	
GIC_VPE.EICSS42	32	0	rw	
GIC_VPE.EICSS43	32	0	rw	
GIC_VPE.EICSS44	32	0	rw	
GIC_VPE.EICSS45	32	0	rw	
GIC_VPE.EICSS46	32	0	rw	
GIC_VPE.EICSS47	32	0	rw	
GIC_VPE.EICSS48	32	0	rw	
GIC_VPE.EICSS49	32	0	rw	
GIC_VPE.EICSS50	32	0	rw	
GIC_VPE.EICSS51	32	0	rw	
GIC_VPE.EICSS52	32	0	rw	
GIC_VPE.EICSS53	32	0	rw	
GIC_VPE.EICSS54	32	0	rw	
GIC_VPE.EICSS55	32	0	rw	
GIC_VPE.EICSS56	32	0	rw	
GIC_VPE.EICSS57	32	0	rw	
GIC_VPE.EICSS58	32	0	rw	

GIC_VPE.EICSS59	32	0	rw
GIC_VPE.EICSS60	32	0	rw
GIC_VPE.EICSS61	32	0	rw
GIC_VPE.EICSS62	32	0	rw
GIC_VPE.EICSS63	32	0	rw
GIC_Vx.DINT_PART	32	1	rw
GIC_Cx.BRK_GROUP	32	0	rw
GIC_VPE.CTL	32	a	rw
GIC_VPE.PEND	32	0	r-
GIC_VPE.MASK	32	7f	r-
GIC_VPE.RMASK	32	0	-w
GIC_VPE.SMASK	32	0	-w
GIC_VPE.WD_MAP	32	40000000	rw
GIC_VPE.COMPARE_MAP	32	80000000	rw
GIC_VPE.TIMER_MAP	32	80000005	rw
GIC_VPE.FDC_MAP	32	80000005	rw
GIC_VPE.PERFCTR_MAP	32	80000005	rw
GIC_VPE.SWInt0_MAP	32	80000000	rw
GIC_VPE.SWInt1_MAP	32	80000000	rw
GIC_VPE.OTHER_ADDRESS	32	0	rw
GIC_VPE.IDENT	32	0	r-
GIC_VPE.WD_CONFIG	32	0	rw
GIC_VPE.WD_COUNT	32	0	r-
GIC_VPE.WD_INITIAL	32	0	rw
GIC_VPE.CompareLo	32	ffffff	rw
GIC_VPE.CompareHi	32	ffffff	rw
GIC_VPE.EICSS00	32	0	rw
GIC_VPE.EICSS01	32	0	rw
GIC_VPE.EICSS02	32	0	rw
GIC_VPE.EICSS03	32	0	rw
GIC_VPE.EICSS04	32	0	rw
GIC_VPE.EICSS05	32	0	rw
GIC_VPE.EICSS06	32	0	rw
GIC_VPE.EICSS07	32	0	rw
GIC_VPE.EICSS08	32	0	rw
GIC_VPE.EICSS09	32	0	rw
GIC_VPE.EICSS10	32	0	rw
GIC_VPE.EICSS11	32	0	rw
GIC_VPE.EICSS12	32	0	rw
GIC_VPE.EICSS13	32	0	rw
GIC_VPE.EICSS14	32	0	rw
GIC_VPE.EICSS15	32	0	rw
GIC_VPE.EICSS16	32	0	rw
GIC_VPE.EICSS17	32	0	rw
GIC_VPE.EICSS18	32	0	rw
GIC_VPE.EICSS19	32	0	rw
GIC_VPE.EICSS20	32	0	rw
GIC_VPE.EICSS21	32	0	rw
GIC_VPE.EICSS22	32	0	rw
GIC_VPE.EICSS23	32	0	rw
GIC_VPE.EICSS24	32	0	rw
GIC_VPE.EICSS25	32	0	rw
GIC_VPE.EICSS26	32	0	rw
GIC_VPE.EICSS27	32	0	rw
GIC_VPE.EICSS28	32	0	rw
GIC_VPE.EICSS29	32	0	rw

GIC_VPE.EICSS30	32	0	rw	
GIC_VPE.EICSS31	32	0	rw	
GIC_VPE.EICSS32	32	0	rw	
GIC_VPE.EICSS33	32	0	rw	
GIC_VPE.EICSS34	32	0	rw	
GIC_VPE.EICSS35	32	0	rw	
GIC_VPE.EICSS36	32	0	rw	
GIC_VPE.EICSS37	32	0	rw	
GIC_VPE.EICSS38	32	0	rw	
GIC_VPE.EICSS39	32	0	rw	
GIC_VPE.EICSS40	32	0	rw	
GIC_VPE.EICSS41	32	0	rw	
GIC_VPE.EICSS42	32	0	rw	
GIC_VPE.EICSS43	32	0	rw	
GIC_VPE.EICSS44	32	0	rw	
GIC_VPE.EICSS45	32	0	rw	
GIC_VPE.EICSS46	32	0	rw	
GIC_VPE.EICSS47	32	0	rw	
GIC_VPE.EICSS48	32	0	rw	
GIC_VPE.EICSS49	32	0	rw	
GIC_VPE.EICSS50	32	0	rw	
GIC_VPE.EICSS51	32	0	rw	
GIC_VPE.EICSS52	32	0	rw	
GIC_VPE.EICSS53	32	0	rw	
GIC_VPE.EICSS54	32	0	rw	
GIC_VPE.EICSS55	32	0	rw	
GIC_VPE.EICSS56	32	0	rw	
GIC_VPE.EICSS57	32	0	rw	
GIC_VPE.EICSS58	32	0	rw	
GIC_VPE.EICSS59	32	0	rw	
GIC_VPE.EICSS60	32	0	rw	
GIC_VPE.EICSS61	32	0	rw	
GIC_VPE.EICSS62	32	0	rw	
GIC_VPE.EICSS63	32	0	rw	
GIC_Vx.DINT_PART	32	1	rw	
GIC_Cx.BRK_GROUP	32	0	rw	
GIC_CounterLoUser	32	0	r-	
GIC_CounterHiUser	32	0	r-	

Table 13.5: Registers at level 3, type:VPE group:CMP\_GIC

## 13.4 Level 4: TC

### 13.4.1 Core

Registers at level:4, type:TC group:Core

Name	Bits	Initial-Hex	RW	Description
zero	32	0	r-	constant zero
at	32	0	rw	
t4	32	0	rw	
t5	32	0	rw	
a0	32	0	rw	
a1	32	0	rw	
a2	32	0	rw	

a3	32	0	rw	
a4	32	0	rw	
a5	32	0	rw	
a6	32	0	rw	
a7	32	0	rw	
t0	32	0	rw	
t1	32	0	rw	
t2	32	0	rw	
t3	32	0	rw	
s0	32	0	rw	
s1	32	0	rw	
s2	32	0	rw	
s3	32	0	rw	
s4	32	0	rw	
s5	32	0	rw	
s6	32	0	rw	
s7	32	0	rw	
t8	32	0	rw	
t9	32	0	rw	
k0	32	0	rw	
k1	32	0	rw	
gp	32	0	rw	
sp	32	0	rw	stack pointer
fp	32	0	rw	frame pointer
ra	32	0	rw	
pc	32	bfc00000	rw	program counter
r0	32	0	r-	constant zero
r1	32	0	rw	
r2	32	0	rw	
r3	32	0	rw	
r4	32	0	rw	
r5	32	0	rw	
r6	32	0	rw	
r7	32	0	rw	
r8	32	0	rw	
r9	32	0	rw	
r10	32	0	rw	
r11	32	0	rw	
r12	32	0	rw	
r13	32	0	rw	
r14	32	0	rw	
r15	32	0	rw	
r16	32	0	rw	
r17	32	0	rw	
r18	32	0	rw	
r19	32	0	rw	
r20	32	0	rw	
r21	32	0	rw	
r22	32	0	rw	
r23	32	0	rw	
r24	32	0	rw	
r25	32	0	rw	
r26	32	0	rw	
r27	32	0	rw	
r28	32	0	rw	
r29	32	0	rw	stack pointer



r30	32	0	rw	frame pointer
r31	32	0	rw	

Table 13.6: Registers at level 4, type:TC group:Core

### 13.4.2 DSP

Registers at level:4, type:TC group:DSP

Name	Bits	Initial-Hex	RW	Description
hi0	32	0	rw	
lo0	32	0	rw	
hi1	32	0	rw	
lo1	32	0	rw	
hi2	32	0	rw	
lo2	32	0	rw	
hi3	32	0	rw	
lo3	32	0	rw	
dspctl	32	0	rw	DSP control

Table 13.7: Registers at level 4, type:TC group:DSP

### 13.4.3 Shadow

Registers at level:4, type:TC group:Shadow

Name	Bits	Initial-Hex	RW	Description
zero[0]	32	0	r-	constant zero
at[0]	32	0	rw	
t4[0]	32	0	rw	
t5[0]	32	0	rw	
a0[0]	32	0	rw	
a1[0]	32	0	rw	
a2[0]	32	0	rw	
a3[0]	32	0	rw	
a4[0]	32	0	rw	
a5[0]	32	0	rw	
a6[0]	32	0	rw	
a7[0]	32	0	rw	
t0[0]	32	0	rw	
t1[0]	32	0	rw	
t2[0]	32	0	rw	
t3[0]	32	0	rw	
s0[0]	32	0	rw	
s1[0]	32	0	rw	
s2[0]	32	0	rw	
s3[0]	32	0	rw	
s4[0]	32	0	rw	
s5[0]	32	0	rw	
s6[0]	32	0	rw	
s7[0]	32	0	rw	
t8[0]	32	0	rw	
t9[0]	32	0	rw	
k0[0]	32	0	rw	
k1[0]	32	0	rw	

gp[0]	32	0	rw	
sp[0]	32	0	rw	stack pointer
fp[0]	32	0	rw	frame pointer
ra[0]	32	0	rw	
r0[0]	32	0	r-	constant zero
r1[0]	32	0	rw	
r2[0]	32	0	rw	
r3[0]	32	0	rw	
r4[0]	32	0	rw	
r5[0]	32	0	rw	
r6[0]	32	0	rw	
r7[0]	32	0	rw	
r8[0]	32	0	rw	
r9[0]	32	0	rw	
r10[0]	32	0	rw	
r11[0]	32	0	rw	
r12[0]	32	0	rw	
r13[0]	32	0	rw	
r14[0]	32	0	rw	
r15[0]	32	0	rw	
r16[0]	32	0	rw	
r17[0]	32	0	rw	
r18[0]	32	0	rw	
r19[0]	32	0	rw	
r20[0]	32	0	rw	
r21[0]	32	0	rw	
r22[0]	32	0	rw	
r23[0]	32	0	rw	
r24[0]	32	0	rw	
r25[0]	32	0	rw	
r26[0]	32	0	rw	
r27[0]	32	0	rw	
r28[0]	32	0	rw	
r29[0]	32	0	rw	stack pointer
r30[0]	32	0	rw	frame pointer
r31[0]	32	0	rw	

Table 13.8: Registers at level 4, type:TC group:Shadow

### 13.4.4 COP0

Registers at level:4, type:TC group:COP0

Name	Bits	Initial-Hex	RW	Description
sr	32	400004	rw	CP0 register 12/0 (status)
bad	32	0	rw	CP0 register 8/0 (badvaddr)
cause	32	0	rw	CP0 register 13/0 (cause)
index	32	0	rw	CP0 register 0/0
mvpcontrol	32	0	rw	CP0 register 0/1
mvpconf0	32	80008401	rw	CP0 register 0/2
mvpconf1	32	40000000	rw	CP0 register 0/3
vpecontrol	32	0	rw	CP0 register 1/1
vpeconf0	32	800f0003	rw	CP0 register 1/2
vpeconf1	32	0	rw	CP0 register 1/3
yqmask	32	0	rw	CP0 register 1/4
vpeschedule	32	0	rw	CP0 register 1/5

vpeschefback	32	0	rw	CP0 register 1/6
vpeopt	32	0	rw	CP0 register 1/7
entrylo0	32	0	rw	CP0 register 2/0
tcstatus	32	2000	rw	CP0 register 2/1
tcbind	32	0	rw	CP0 register 2/2
tcrestart	32	0	rw	CP0 register 2/3
tchalt	32	0	rw	CP0 register 2/4
tccontext	32	0	rw	CP0 register 2/5
tcschedule	32	0	rw	CP0 register 2/6
tcchefback	32	0	rw	CP0 register 2/7
entrylo1	32	0	rw	CP0 register 3/0
tcopt	32	0	rw	CP0 register 3/7
context	32	0	rw	CP0 register 4/0
contextconfig	32	7fff0	rw	CP0 register 4/1
userlocal	32	0	rw	CP0 register 4/2
pagemask	32	0	rw	CP0 register 5/0
pagegrain	32	c8000000	rw	CP0 register 5/1
segctl0	32	200010	rw	CP0 register 5/2
segctl1	32	30002	rw	CP0 register 5/3
segctl2	32	380438	rw	CP0 register 5/4
wired	32	0	rw	CP0 register 6/0
srsconf0	32	3ffffff	rw	CP0 register 6/1
hwrena	32	0	rw	CP0 register 7/0
badvaddr	32	0	rw	CP0 register 8/0
badinstr	32	0	rw	CP0 register 8/1
badinstrx	32	0	rw	CP0 register 8/3
count	32	0	rw	CP0 register 9/0
entryhi	32	0	rw	CP0 register 10/0
compare	32	0	rw	CP0 register 11/0
status	32	400004	rw	CP0 register 12/0
intctl	32	e0000000	rw	CP0 register 12/1
srsctl	32	0	rw	CP0 register 12/2
srsmap	32	0	rw	CP0 register 12/3
epc	32	0	rw	CP0 register 14/0
prid	32	1b200	rw	CP0 register 15/0
ebase	32	80000000	rw	CP0 register 15/1
cdmmbase	32	2	rw	CP0 register 15/2
cmgcrbase	32	1fbf800	rw	CP0 register 15/3
bevva	32	bfc00000	rw	CP0 register 15/4
config	32	80040882	rw	CP0 register 16/0
config1	32	9ea35192	rw	CP0 register 16/1
config2	32	80000000	rw	CP0 register 16/2
config3	32	a60d7e2d	rw	CP0 register 16/3
config4	32	c0fc0000	rw	CP0 register 16/4
config5	32	10100430	rw	CP0 register 16/5
config7	32	4120	rw	CP0 register 16/7
lladdr	32	0	rw	CP0 register 17/0
bcopcontrol	32	0	rw	CP0 register 22/0
bcopstatus	32	0	rw	CP0 register 22/1
spramcontrol	32	8	rw	CP0 register 22/3
debug	32	2028000	rw	CP0 register 23/0
tracecontrol	32	0	rw	CP0 register 23/1
tracecontrol2	32	0	rw	CP0 register 23/2
usertracedata	32	0	rw	CP0 register 23/3
traceibpc	32	0	rw	CP0 register 23/4
tracedbpc	32	0	rw	CP0 register 23/5

ibp2_3_action	32	0	rw	CP0 register 23/7
depc	32	0	rw	CP0 register 24/0
dbp2_3_action	32	0	rw	CP0 register 24/1
tracecontrol3	32	0	rw	CP0 register 24/2
usertracedata2	32	0	rw	CP0 register 24/3
tcbconfig	32	0	rw	CP0 register 24/4
tcbcontrole	32	0	rw	CP0 register 24/5
ibp4_5_action	32	0	rw	CP0 register 24/6
ibp6_7_action	32	0	rw	CP0 register 24/7
perfctl0	32	80008000	rw	CP0 register 25/0
perfent0	32	0	rw	CP0 register 25/1
perfctl1	32	80008000	rw	CP0 register 25/2
perfent1	32	0	rw	CP0 register 25/3
perfctl2	32	80008000	rw	CP0 register 25/4
perfent2	32	0	rw	CP0 register 25/5
perfctl3	32	8000	rw	CP0 register 25/6
perfent3	32	0	rw	CP0 register 25/7
errctl	32	0	rw	CP0 register 26/0
tcbcontrold	32	0	rw	CP0 register 26/4
itaglo	32	0	rw	CP0 register 28/0
idatalo	32	0	rw	CP0 register 28/1
dtaglo	32	0	rw	CP0 register 28/2
ddatalo	32	0	rw	CP0 register 28/3
idatahi	32	0	rw	CP0 register 29/1
dtaghi	32	0	rw	CP0 register 29/2
errorepc	32	0	rw	CP0 register 30/0
desave	32	0	rw	CP0 register 31/0
kscratch1	32	0	rw	CP0 register 31/2
kscratch2	32	0	rw	CP0 register 31/3
kscratch3	32	0	rw	CP0 register 31/4
kscratch4	32	0	rw	CP0 register 31/5
kscratch5	32	0	rw	CP0 register 31/6
kscratch6	32	0	rw	CP0 register 31/7

Table 13.9: Registers at level 4, type:TC group:COP0

### 13.4.5 CMP\_GCR

Registers at level:4, type:TC group:CMP\_GCR

Name	Bits	Initial-Hex	RW	Description
GCR_CONFIG	32	3	r-	
GCR_BASE	32	1fbf8000	rw	
GCR_BASE_UPPER	32	0	rw	
GCR_CONTROL	32	c21	rw	
GCR_ACCESS	32	ff	rw	
GCR_REV	32	0	r-	
GCR_ERROR_MASK	32	0	rw	
GCR_ERROR_CAUSE	32	0	rw	
GCR_ERROR_ADDR	32	0	rw	
GCR_ERROR_ADDR_UPPER	32	0	rw	
GCR_ERROR_MULT	32	0	rw	
GCR_CUSTOM_BASE	32	0	rw	
GCR_CUSTOM_BASE_UPPER	32	0	rw	
GCR_CUSTOM_STATUS	32	0	r-	
GCR_GIC_BASE	32	0	rw	

GCR_GIC_BASE_UPPER	32	0	rw	
GCR_CPC_BASE	32	0	rw	
GCR_CPC_BASE_UPPER	32	0	rw	
GCR_GIC_STATUS	32	1	r-	
GCR_CACHE_REV	32	0	r-	
GCR_CPC_STATUS	32	1	r-	
GCR_L2_CONFIG	32	80000000	rw	
GCR_SYS_CONFIG2	32	0	r-	
GCR_IOCUI_REV	32	0	r-	
GCR_L2_RAM_CONFIG	32	0	r-	
GCR_L2_TAG_ADDR	32	0	rw	
GCR_L2_TAG_STATE	32	80	rw	
GCR_L2_TAG_STATE_UPPER	32	0	rw	
GCR_L2_DATA	32	0	rw	
GCR_L2_DATA_UPPER	32	0	rw	
GCR_L2_ECC	32	0	rw	
GCR_L2_ECC_UPPER	32	0	rw	
GCR_CL_RESET_RELEASE	32	0	-w	
GCR_CL_COHERENCE	32	0	rw	
GCR_CL_CONFIG	32	1	r-	
GCR_CL_OTHER	32	0	rw	
GCR_CL_RESET_BASE	32	bfc00000	rw	
GCR_CL_ID	32	0	r-	
GCR_CL_RESET_EXT_BASE	32	40000001	rw	
GCR_CO_RESET_RELEASE	32	0	-w	
GCR_CO_COHERENCE	32	0	rw	
GCR_CO_CONFIG	32	1	r-	
GCR_CO_OTHER	32	0	rw	
GCR_CO_RESET_BASE	32	bfc00000	rw	
GCR_CO_ID	32	0	r-	
GCR_CO_RESET_EXT_BASE	32	40000001	rw	

Table 13.10: Registers at level 4, type:TC group:CMP\_GCR

### 13.4.6 CMP\_CPC

Registers at level:4, type:TC group:CMP\_CPC

Name	Bits	Initial-Hex	RW	Description
CPC_ACCESS	32	ff	rw	
CPC_SEQDEL	32	0	rw	
CPC_RAIL	32	0	rw	
CPC_RESETLEN	32	0	rw	
CPC_REVISION	32	0	r-	
CPC_CMD	32	3	rw	
CPC_STAT_CONF	32	300200	rw	
CPC_OTHER	32	0	rw	
CPC_CMD	32	3	rw	
CPC_STAT_CONF	32	300200	rw	
CPC_OTHER	32	0	rw	

Table 13.11: Registers at level 4, type:TC group:CMP\_CPC

### 13.4.7 CMP\_GIC

Registers at level:4, type:TC group:CMP\_GIC

Name	Bits	Initial-Hex	RW	Description
GIC_SH_CONFIG	32	8040007	rw	
GIC_CounterLo	32	0	rw	
GIC_CounterHi	32	0	rw	
GIC_SH_REVISION	32	0	r-	
GIC_SH_POL31_0	32	0	rw	
GIC_SH_POL63_32	32	0	rw	
GIC_SH_POL95_64	32	0	rw	
GIC_SH_POL127_96	32	0	rw	
GIC_SH_POL159_128	32	0	rw	
GIC_SH_POL191_160	32	0	rw	
GIC_SH_POL223_192	32	0	rw	
GIC_SH_POL255_224	32	0	rw	
GIC_SH_TRIG31_0	32	0	rw	
GIC_SH_TRIG63_32	32	0	rw	
GIC_SH_TRIG95_64	32	0	rw	
GIC_SH_TRIG127_96	32	0	rw	
GIC_SH_TRIG159_128	32	0	rw	
GIC_SH_TRIG191_160	32	0	rw	
GIC_SH_TRIG223_192	32	0	rw	
GIC_SH_TRIG255_224	32	0	rw	
GIC_SH_DUAL31_0	32	0	rw	
GIC_SH_DUAL63_32	32	0	rw	
GIC_SH_DUAL95_64	32	0	rw	
GIC_SH_DUAL127_96	32	0	rw	
GIC_SH_DUAL159_128	32	0	rw	
GIC_SH_DUAL191_160	32	0	rw	
GIC_SH_DUAL223_192	32	0	rw	
GIC_SH_DUAL255_224	32	0	rw	
GIC_SH_WEDGE	32	0	-w	
GIC_SH_RMASK31_0	32	0	-w	
GIC_SH_RMASK63_32	32	0	-w	
GIC_SH_RMASK95_64	32	0	-w	
GIC_SH_RMASK127_96	32	0	-w	
GIC_SH_RMASK159_128	32	0	-w	
GIC_SH_RMASK191_160	32	0	-w	
GIC_SH_RMASK223_192	32	0	-w	
GIC_SH_RMASK255_224	32	0	-w	
GIC_SH_SMASK31_0	32	0	-w	
GIC_SH_SMASK63_32	32	0	-w	
GIC_SH_SMASK95_64	32	0	-w	
GIC_SH_SMASK127_96	32	0	-w	
GIC_SH_SMASK159_128	32	0	-w	
GIC_SH_SMASK191_160	32	0	-w	
GIC_SH_SMASK223_192	32	0	-w	
GIC_SH_SMASK255_224	32	0	-w	
GIC_SH_MASK31_0	32	0	r-	
GIC_SH_MASK63_32	32	0	r-	
GIC_SH_MASK95_64	32	0	r-	
GIC_SH_MASK127_96	32	0	r-	
GIC_SH_MASK159_128	32	0	r-	
GIC_SH_MASK191_160	32	0	r-	
GIC_SH_MASK223_192	32	0	r-	

GIC_SH_MASK255_224	32	0	r-	
GIC_SH_PEND31_0	32	0	r-	
GIC_SH_PEND63_32	32	0	r-	
GIC_SH_PEND95_64	32	0	r-	
GIC_SH_PEND127_96	32	0	r-	
GIC_SH_PEND159_128	32	0	r-	
GIC_SH_PEND191_160	32	0	r-	
GIC_SH_PEND223_192	32	0	r-	
GIC_SH_PEND255_224	32	0	r-	
GIC_SH_MAP000_PIN	32	80000000	rw	
GIC_SH_MAP001_PIN	32	80000000	rw	
GIC_SH_MAP002_PIN	32	80000000	rw	
GIC_SH_MAP003_PIN	32	80000000	rw	
GIC_SH_MAP004_PIN	32	80000000	rw	
GIC_SH_MAP005_PIN	32	80000000	rw	
GIC_SH_MAP006_PIN	32	80000000	rw	
GIC_SH_MAP007_PIN	32	80000000	rw	
GIC_SH_MAP008_PIN	32	80000000	rw	
GIC_SH_MAP009_PIN	32	80000000	rw	
GIC_SH_MAP010_PIN	32	80000000	rw	
GIC_SH_MAP011_PIN	32	80000000	rw	
GIC_SH_MAP012_PIN	32	80000000	rw	
GIC_SH_MAP013_PIN	32	80000000	rw	
GIC_SH_MAP014_PIN	32	80000000	rw	
GIC_SH_MAP015_PIN	32	80000000	rw	
GIC_SH_MAP016_PIN	32	80000000	rw	
GIC_SH_MAP017_PIN	32	80000000	rw	
GIC_SH_MAP018_PIN	32	80000000	rw	
GIC_SH_MAP019_PIN	32	80000000	rw	
GIC_SH_MAP020_PIN	32	80000000	rw	
GIC_SH_MAP021_PIN	32	80000000	rw	
GIC_SH_MAP022_PIN	32	80000000	rw	
GIC_SH_MAP023_PIN	32	80000000	rw	
GIC_SH_MAP024_PIN	32	80000000	rw	
GIC_SH_MAP025_PIN	32	80000000	rw	
GIC_SH_MAP026_PIN	32	80000000	rw	
GIC_SH_MAP027_PIN	32	80000000	rw	
GIC_SH_MAP028_PIN	32	80000000	rw	
GIC_SH_MAP029_PIN	32	80000000	rw	
GIC_SH_MAP030_PIN	32	80000000	rw	
GIC_SH_MAP031_PIN	32	80000000	rw	
GIC_SH_MAP032_PIN	32	80000000	rw	
GIC_SH_MAP033_PIN	32	80000000	rw	
GIC_SH_MAP034_PIN	32	80000000	rw	
GIC_SH_MAP035_PIN	32	80000000	rw	
GIC_SH_MAP036_PIN	32	80000000	rw	
GIC_SH_MAP037_PIN	32	80000000	rw	
GIC_SH_MAP038_PIN	32	80000000	rw	
GIC_SH_MAP039_PIN	32	80000000	rw	
GIC_SH_MAP040_PIN	32	0	rw	
GIC_SH_MAP041_PIN	32	0	rw	
GIC_SH_MAP042_PIN	32	0	rw	
GIC_SH_MAP043_PIN	32	0	rw	
GIC_SH_MAP044_PIN	32	0	rw	
GIC_SH_MAP045_PIN	32	0	rw	
GIC_SH_MAP046_PIN	32	0	rw	

GIC_SH_MAP047_PIN	32	0	rw	
GIC_SH_MAP048_PIN	32	0	rw	
GIC_SH_MAP049_PIN	32	0	rw	
GIC_SH_MAP050_PIN	32	0	rw	
GIC_SH_MAP051_PIN	32	0	rw	
GIC_SH_MAP052_PIN	32	0	rw	
GIC_SH_MAP053_PIN	32	0	rw	
GIC_SH_MAP054_PIN	32	0	rw	
GIC_SH_MAP055_PIN	32	0	rw	
GIC_SH_MAP056_PIN	32	0	rw	
GIC_SH_MAP057_PIN	32	0	rw	
GIC_SH_MAP058_PIN	32	0	rw	
GIC_SH_MAP059_PIN	32	0	rw	
GIC_SH_MAP060_PIN	32	0	rw	
GIC_SH_MAP061_PIN	32	0	rw	
GIC_SH_MAP062_PIN	32	0	rw	
GIC_SH_MAP063_PIN	32	0	rw	
GIC_SH_MAP064_PIN	32	0	rw	
GIC_SH_MAP065_PIN	32	0	rw	
GIC_SH_MAP066_PIN	32	0	rw	
GIC_SH_MAP067_PIN	32	0	rw	
GIC_SH_MAP068_PIN	32	0	rw	
GIC_SH_MAP069_PIN	32	0	rw	
GIC_SH_MAP070_PIN	32	0	rw	
GIC_SH_MAP071_PIN	32	0	rw	
GIC_SH_MAP072_PIN	32	0	rw	
GIC_SH_MAP073_PIN	32	0	rw	
GIC_SH_MAP074_PIN	32	0	rw	
GIC_SH_MAP075_PIN	32	0	rw	
GIC_SH_MAP076_PIN	32	0	rw	
GIC_SH_MAP077_PIN	32	0	rw	
GIC_SH_MAP078_PIN	32	0	rw	
GIC_SH_MAP079_PIN	32	0	rw	
GIC_SH_MAP080_PIN	32	0	rw	
GIC_SH_MAP081_PIN	32	0	rw	
GIC_SH_MAP082_PIN	32	0	rw	
GIC_SH_MAP083_PIN	32	0	rw	
GIC_SH_MAP084_PIN	32	0	rw	
GIC_SH_MAP085_PIN	32	0	rw	
GIC_SH_MAP086_PIN	32	0	rw	
GIC_SH_MAP087_PIN	32	0	rw	
GIC_SH_MAP088_PIN	32	0	rw	
GIC_SH_MAP089_PIN	32	0	rw	
GIC_SH_MAP090_PIN	32	0	rw	
GIC_SH_MAP091_PIN	32	0	rw	
GIC_SH_MAP092_PIN	32	0	rw	
GIC_SH_MAP093_PIN	32	0	rw	
GIC_SH_MAP094_PIN	32	0	rw	
GIC_SH_MAP095_PIN	32	0	rw	
GIC_SH_MAP096_PIN	32	0	rw	
GIC_SH_MAP097_PIN	32	0	rw	
GIC_SH_MAP098_PIN	32	0	rw	
GIC_SH_MAP099_PIN	32	0	rw	
GIC_SH_MAP100_PIN	32	0	rw	
GIC_SH_MAP101_PIN	32	0	rw	
GIC_SH_MAP102_PIN	32	0	rw	



GIC.SH_MAP103_PIN	32	0	rw	
GIC.SH_MAP104_PIN	32	0	rw	
GIC.SH_MAP105_PIN	32	0	rw	
GIC.SH_MAP106_PIN	32	0	rw	
GIC.SH_MAP107_PIN	32	0	rw	
GIC.SH_MAP108_PIN	32	0	rw	
GIC.SH_MAP109_PIN	32	0	rw	
GIC.SH_MAP110_PIN	32	0	rw	
GIC.SH_MAP111_PIN	32	0	rw	
GIC.SH_MAP112_PIN	32	0	rw	
GIC.SH_MAP113_PIN	32	0	rw	
GIC.SH_MAP114_PIN	32	0	rw	
GIC.SH_MAP115_PIN	32	0	rw	
GIC.SH_MAP116_PIN	32	0	rw	
GIC.SH_MAP117_PIN	32	0	rw	
GIC.SH_MAP118_PIN	32	0	rw	
GIC.SH_MAP119_PIN	32	0	rw	
GIC.SH_MAP120_PIN	32	0	rw	
GIC.SH_MAP121_PIN	32	0	rw	
GIC.SH_MAP122_PIN	32	0	rw	
GIC.SH_MAP123_PIN	32	0	rw	
GIC.SH_MAP124_PIN	32	0	rw	
GIC.SH_MAP125_PIN	32	0	rw	
GIC.SH_MAP126_PIN	32	0	rw	
GIC.SH_MAP127_PIN	32	0	rw	
GIC.SH_MAP128_PIN	32	0	rw	
GIC.SH_MAP129_PIN	32	0	rw	
GIC.SH_MAP130_PIN	32	0	rw	
GIC.SH_MAP131_PIN	32	0	rw	
GIC.SH_MAP132_PIN	32	0	rw	
GIC.SH_MAP133_PIN	32	0	rw	
GIC.SH_MAP134_PIN	32	0	rw	
GIC.SH_MAP135_PIN	32	0	rw	
GIC.SH_MAP136_PIN	32	0	rw	
GIC.SH_MAP137_PIN	32	0	rw	
GIC.SH_MAP138_PIN	32	0	rw	
GIC.SH_MAP139_PIN	32	0	rw	
GIC.SH_MAP140_PIN	32	0	rw	
GIC.SH_MAP141_PIN	32	0	rw	
GIC.SH_MAP142_PIN	32	0	rw	
GIC.SH_MAP143_PIN	32	0	rw	
GIC.SH_MAP144_PIN	32	0	rw	
GIC.SH_MAP145_PIN	32	0	rw	
GIC.SH_MAP146_PIN	32	0	rw	
GIC.SH_MAP147_PIN	32	0	rw	
GIC.SH_MAP148_PIN	32	0	rw	
GIC.SH_MAP149_PIN	32	0	rw	
GIC.SH_MAP150_PIN	32	0	rw	
GIC.SH_MAP151_PIN	32	0	rw	
GIC.SH_MAP152_PIN	32	0	rw	
GIC.SH_MAP153_PIN	32	0	rw	
GIC.SH_MAP154_PIN	32	0	rw	
GIC.SH_MAP155_PIN	32	0	rw	
GIC.SH_MAP156_PIN	32	0	rw	
GIC.SH_MAP157_PIN	32	0	rw	
GIC.SH_MAP158_PIN	32	0	rw	

GIC.SH_MAP159_PIN	32	0	rw	
GIC.SH_MAP160_PIN	32	0	rw	
GIC.SH_MAP161_PIN	32	0	rw	
GIC.SH_MAP162_PIN	32	0	rw	
GIC.SH_MAP163_PIN	32	0	rw	
GIC.SH_MAP164_PIN	32	0	rw	
GIC.SH_MAP165_PIN	32	0	rw	
GIC.SH_MAP166_PIN	32	0	rw	
GIC.SH_MAP167_PIN	32	0	rw	
GIC.SH_MAP168_PIN	32	0	rw	
GIC.SH_MAP169_PIN	32	0	rw	
GIC.SH_MAP170_PIN	32	0	rw	
GIC.SH_MAP171_PIN	32	0	rw	
GIC.SH_MAP172_PIN	32	0	rw	
GIC.SH_MAP173_PIN	32	0	rw	
GIC.SH_MAP174_PIN	32	0	rw	
GIC.SH_MAP175_PIN	32	0	rw	
GIC.SH_MAP176_PIN	32	0	rw	
GIC.SH_MAP177_PIN	32	0	rw	
GIC.SH_MAP178_PIN	32	0	rw	
GIC.SH_MAP179_PIN	32	0	rw	
GIC.SH_MAP180_PIN	32	0	rw	
GIC.SH_MAP181_PIN	32	0	rw	
GIC.SH_MAP182_PIN	32	0	rw	
GIC.SH_MAP183_PIN	32	0	rw	
GIC.SH_MAP184_PIN	32	0	rw	
GIC.SH_MAP185_PIN	32	0	rw	
GIC.SH_MAP186_PIN	32	0	rw	
GIC.SH_MAP187_PIN	32	0	rw	
GIC.SH_MAP188_PIN	32	0	rw	
GIC.SH_MAP189_PIN	32	0	rw	
GIC.SH_MAP190_PIN	32	0	rw	
GIC.SH_MAP191_PIN	32	0	rw	
GIC.SH_MAP192_PIN	32	0	rw	
GIC.SH_MAP193_PIN	32	0	rw	
GIC.SH_MAP194_PIN	32	0	rw	
GIC.SH_MAP195_PIN	32	0	rw	
GIC.SH_MAP196_PIN	32	0	rw	
GIC.SH_MAP197_PIN	32	0	rw	
GIC.SH_MAP198_PIN	32	0	rw	
GIC.SH_MAP199_PIN	32	0	rw	
GIC.SH_MAP200_PIN	32	0	rw	
GIC.SH_MAP201_PIN	32	0	rw	
GIC.SH_MAP202_PIN	32	0	rw	
GIC.SH_MAP203_PIN	32	0	rw	
GIC.SH_MAP204_PIN	32	0	rw	
GIC.SH_MAP205_PIN	32	0	rw	
GIC.SH_MAP206_PIN	32	0	rw	
GIC.SH_MAP207_PIN	32	0	rw	
GIC.SH_MAP208_PIN	32	0	rw	
GIC.SH_MAP209_PIN	32	0	rw	
GIC.SH_MAP210_PIN	32	0	rw	
GIC.SH_MAP211_PIN	32	0	rw	
GIC.SH_MAP212_PIN	32	0	rw	
GIC.SH_MAP213_PIN	32	0	rw	
GIC.SH_MAP214_PIN	32	0	rw	

GIC.SH_MAP215_PIN	32	0	rw	
GIC.SH_MAP216_PIN	32	0	rw	
GIC.SH_MAP217_PIN	32	0	rw	
GIC.SH_MAP218_PIN	32	0	rw	
GIC.SH_MAP219_PIN	32	0	rw	
GIC.SH_MAP220_PIN	32	0	rw	
GIC.SH_MAP221_PIN	32	0	rw	
GIC.SH_MAP222_PIN	32	0	rw	
GIC.SH_MAP223_PIN	32	0	rw	
GIC.SH_MAP224_PIN	32	0	rw	
GIC.SH_MAP225_PIN	32	0	rw	
GIC.SH_MAP226_PIN	32	0	rw	
GIC.SH_MAP227_PIN	32	0	rw	
GIC.SH_MAP228_PIN	32	0	rw	
GIC.SH_MAP229_PIN	32	0	rw	
GIC.SH_MAP230_PIN	32	0	rw	
GIC.SH_MAP231_PIN	32	0	rw	
GIC.SH_MAP232_PIN	32	0	rw	
GIC.SH_MAP233_PIN	32	0	rw	
GIC.SH_MAP234_PIN	32	0	rw	
GIC.SH_MAP235_PIN	32	0	rw	
GIC.SH_MAP236_PIN	32	0	rw	
GIC.SH_MAP237_PIN	32	0	rw	
GIC.SH_MAP238_PIN	32	0	rw	
GIC.SH_MAP239_PIN	32	0	rw	
GIC.SH_MAP240_PIN	32	0	rw	
GIC.SH_MAP241_PIN	32	0	rw	
GIC.SH_MAP242_PIN	32	0	rw	
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GIC.SH_MAP244_PIN	32	0	rw	
GIC.SH_MAP245_PIN	32	0	rw	
GIC.SH_MAP246_PIN	32	0	rw	
GIC.SH_MAP247_PIN	32	0	rw	
GIC.SH_MAP248_PIN	32	0	rw	
GIC.SH_MAP249_PIN	32	0	rw	
GIC.SH_MAP250_PIN	32	0	rw	
GIC.SH_MAP251_PIN	32	0	rw	
GIC.SH_MAP252_PIN	32	0	rw	
GIC.SH_MAP253_PIN	32	0	rw	
GIC.SH_MAP254_PIN	32	0	rw	
GIC.SH_MAP255_PIN	32	0	rw	
GIC.SH_MAP000_VPE31_0	32	0	rw	
GIC.SH_MAP001_VPE31_0	32	0	rw	
GIC.SH_MAP002_VPE31_0	32	0	rw	
GIC.SH_MAP003_VPE31_0	32	0	rw	
GIC.SH_MAP004_VPE31_0	32	0	rw	
GIC.SH_MAP005_VPE31_0	32	0	rw	
GIC.SH_MAP006_VPE31_0	32	0	rw	
GIC.SH_MAP007_VPE31_0	32	0	rw	
GIC.SH_MAP008_VPE31_0	32	0	rw	
GIC.SH_MAP009_VPE31_0	32	0	rw	
GIC.SH_MAP010_VPE31_0	32	0	rw	
GIC.SH_MAP011_VPE31_0	32	0	rw	
GIC.SH_MAP012_VPE31_0	32	0	rw	
GIC.SH_MAP013_VPE31_0	32	0	rw	
GIC.SH_MAP014_VPE31_0	32	0	rw	

GIC_SH_MAP015_VPE31_0	32	0	rw
GIC_SH_MAP016_VPE31_0	32	0	rw
GIC_SH_MAP017_VPE31_0	32	0	rw
GIC_SH_MAP018_VPE31_0	32	0	rw
GIC_SH_MAP019_VPE31_0	32	0	rw
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GIC_SH_MAP022_VPE31_0	32	0	rw
GIC_SH_MAP023_VPE31_0	32	0	rw
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GIC_SH_MAP025_VPE31_0	32	0	rw
GIC_SH_MAP026_VPE31_0	32	0	rw
GIC_SH_MAP027_VPE31_0	32	0	rw
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GIC_SH_MAP029_VPE31_0	32	0	rw
GIC_SH_MAP030_VPE31_0	32	0	rw
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GIC_SH_MAP042_VPE31_0	32	0	rw
GIC_SH_MAP043_VPE31_0	32	0	rw
GIC_SH_MAP044_VPE31_0	32	0	rw
GIC_SH_MAP045_VPE31_0	32	0	rw
GIC_SH_MAP046_VPE31_0	32	0	rw
GIC_SH_MAP047_VPE31_0	32	0	rw
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GIC_SH_MAP049_VPE31_0	32	0	rw
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GIC_SH_MAP070_VPE31_0	32	0	rw

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GIC.SH_MAP038_VPE63_32	32	0	rw



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GIC.SH_MAP109_VPE63_32	32	0	rw
GIC.SH_MAP110_VPE63_32	32	0	rw
GIC.SH_MAP111_VPE63_32	32	0	rw
GIC.SH_MAP112_VPE63_32	32	0	rw
GIC.SH_MAP113_VPE63_32	32	0	rw
GIC.SH_MAP114_VPE63_32	32	0	rw
GIC.SH_MAP115_VPE63_32	32	0	rw
GIC.SH_MAP116_VPE63_32	32	0	rw
GIC.SH_MAP117_VPE63_32	32	0	rw
GIC.SH_MAP118_VPE63_32	32	0	rw
GIC.SH_MAP119_VPE63_32	32	0	rw
GIC.SH_MAP120_VPE63_32	32	0	rw
GIC.SH_MAP121_VPE63_32	32	0	rw
GIC.SH_MAP122_VPE63_32	32	0	rw
GIC.SH_MAP123_VPE63_32	32	0	rw
GIC.SH_MAP124_VPE63_32	32	0	rw
GIC.SH_MAP125_VPE63_32	32	0	rw
GIC.SH_MAP126_VPE63_32	32	0	rw
GIC.SH_MAP127_VPE63_32	32	0	rw
GIC.SH_MAP128_VPE63_32	32	0	rw
GIC.SH_MAP129_VPE63_32	32	0	rw
GIC.SH_MAP130_VPE63_32	32	0	rw
GIC.SH_MAP131_VPE63_32	32	0	rw
GIC.SH_MAP132_VPE63_32	32	0	rw
GIC.SH_MAP133_VPE63_32	32	0	rw
GIC.SH_MAP134_VPE63_32	32	0	rw
GIC.SH_MAP135_VPE63_32	32	0	rw
GIC.SH_MAP136_VPE63_32	32	0	rw
GIC.SH_MAP137_VPE63_32	32	0	rw
GIC.SH_MAP138_VPE63_32	32	0	rw
GIC.SH_MAP139_VPE63_32	32	0	rw
GIC.SH_MAP140_VPE63_32	32	0	rw
GIC.SH_MAP141_VPE63_32	32	0	rw
GIC.SH_MAP142_VPE63_32	32	0	rw
GIC.SH_MAP143_VPE63_32	32	0	rw
GIC.SH_MAP144_VPE63_32	32	0	rw
GIC.SH_MAP145_VPE63_32	32	0	rw
GIC.SH_MAP146_VPE63_32	32	0	rw
GIC.SH_MAP147_VPE63_32	32	0	rw
GIC.SH_MAP148_VPE63_32	32	0	rw
GIC.SH_MAP149_VPE63_32	32	0	rw
GIC.SH_MAP150_VPE63_32	32	0	rw

GIC.SH_MAP151_VPE63_32	32	0	rw
GIC.SH_MAP152_VPE63_32	32	0	rw
GIC.SH_MAP153_VPE63_32	32	0	rw
GIC.SH_MAP154_VPE63_32	32	0	rw
GIC.SH_MAP155_VPE63_32	32	0	rw
GIC.SH_MAP156_VPE63_32	32	0	rw
GIC.SH_MAP157_VPE63_32	32	0	rw
GIC.SH_MAP158_VPE63_32	32	0	rw
GIC.SH_MAP159_VPE63_32	32	0	rw
GIC.SH_MAP160_VPE63_32	32	0	rw
GIC.SH_MAP161_VPE63_32	32	0	rw
GIC.SH_MAP162_VPE63_32	32	0	rw
GIC.SH_MAP163_VPE63_32	32	0	rw
GIC.SH_MAP164_VPE63_32	32	0	rw
GIC.SH_MAP165_VPE63_32	32	0	rw
GIC.SH_MAP166_VPE63_32	32	0	rw
GIC.SH_MAP167_VPE63_32	32	0	rw
GIC.SH_MAP168_VPE63_32	32	0	rw
GIC.SH_MAP169_VPE63_32	32	0	rw
GIC.SH_MAP170_VPE63_32	32	0	rw
GIC.SH_MAP171_VPE63_32	32	0	rw
GIC.SH_MAP172_VPE63_32	32	0	rw
GIC.SH_MAP173_VPE63_32	32	0	rw
GIC.SH_MAP174_VPE63_32	32	0	rw
GIC.SH_MAP175_VPE63_32	32	0	rw
GIC.SH_MAP176_VPE63_32	32	0	rw
GIC.SH_MAP177_VPE63_32	32	0	rw
GIC.SH_MAP178_VPE63_32	32	0	rw
GIC.SH_MAP179_VPE63_32	32	0	rw
GIC.SH_MAP180_VPE63_32	32	0	rw
GIC.SH_MAP181_VPE63_32	32	0	rw
GIC.SH_MAP182_VPE63_32	32	0	rw
GIC.SH_MAP183_VPE63_32	32	0	rw
GIC.SH_MAP184_VPE63_32	32	0	rw
GIC.SH_MAP185_VPE63_32	32	0	rw
GIC.SH_MAP186_VPE63_32	32	0	rw
GIC.SH_MAP187_VPE63_32	32	0	rw
GIC.SH_MAP188_VPE63_32	32	0	rw
GIC.SH_MAP189_VPE63_32	32	0	rw
GIC.SH_MAP190_VPE63_32	32	0	rw
GIC.SH_MAP191_VPE63_32	32	0	rw
GIC.SH_MAP192_VPE63_32	32	0	rw
GIC.SH_MAP193_VPE63_32	32	0	rw
GIC.SH_MAP194_VPE63_32	32	0	rw
GIC.SH_MAP195_VPE63_32	32	0	rw
GIC.SH_MAP196_VPE63_32	32	0	rw
GIC.SH_MAP197_VPE63_32	32	0	rw
GIC.SH_MAP198_VPE63_32	32	0	rw
GIC.SH_MAP199_VPE63_32	32	0	rw
GIC.SH_MAP200_VPE63_32	32	0	rw
GIC.SH_MAP201_VPE63_32	32	0	rw
GIC.SH_MAP202_VPE63_32	32	0	rw
GIC.SH_MAP203_VPE63_32	32	0	rw
GIC.SH_MAP204_VPE63_32	32	0	rw
GIC.SH_MAP205_VPE63_32	32	0	rw
GIC.SH_MAP206_VPE63_32	32	0	rw

GIC.SH_MAP207_VPE63_32	32	0	rw	
GIC.SH_MAP208_VPE63_32	32	0	rw	
GIC.SH_MAP209_VPE63_32	32	0	rw	
GIC.SH_MAP210_VPE63_32	32	0	rw	
GIC.SH_MAP211_VPE63_32	32	0	rw	
GIC.SH_MAP212_VPE63_32	32	0	rw	
GIC.SH_MAP213_VPE63_32	32	0	rw	
GIC.SH_MAP214_VPE63_32	32	0	rw	
GIC.SH_MAP215_VPE63_32	32	0	rw	
GIC.SH_MAP216_VPE63_32	32	0	rw	
GIC.SH_MAP217_VPE63_32	32	0	rw	
GIC.SH_MAP218_VPE63_32	32	0	rw	
GIC.SH_MAP219_VPE63_32	32	0	rw	
GIC.SH_MAP220_VPE63_32	32	0	rw	
GIC.SH_MAP221_VPE63_32	32	0	rw	
GIC.SH_MAP222_VPE63_32	32	0	rw	
GIC.SH_MAP223_VPE63_32	32	0	rw	
GIC.SH_MAP224_VPE63_32	32	0	rw	
GIC.SH_MAP225_VPE63_32	32	0	rw	
GIC.SH_MAP226_VPE63_32	32	0	rw	
GIC.SH_MAP227_VPE63_32	32	0	rw	
GIC.SH_MAP228_VPE63_32	32	0	rw	
GIC.SH_MAP229_VPE63_32	32	0	rw	
GIC.SH_MAP230_VPE63_32	32	0	rw	
GIC.SH_MAP231_VPE63_32	32	0	rw	
GIC.SH_MAP232_VPE63_32	32	0	rw	
GIC.SH_MAP233_VPE63_32	32	0	rw	
GIC.SH_MAP234_VPE63_32	32	0	rw	
GIC.SH_MAP235_VPE63_32	32	0	rw	
GIC.SH_MAP236_VPE63_32	32	0	rw	
GIC.SH_MAP237_VPE63_32	32	0	rw	
GIC.SH_MAP238_VPE63_32	32	0	rw	
GIC.SH_MAP239_VPE63_32	32	0	rw	
GIC.SH_MAP240_VPE63_32	32	0	rw	
GIC.SH_MAP241_VPE63_32	32	0	rw	
GIC.SH_MAP242_VPE63_32	32	0	rw	
GIC.SH_MAP243_VPE63_32	32	0	rw	
GIC.SH_MAP244_VPE63_32	32	0	rw	
GIC.SH_MAP245_VPE63_32	32	0	rw	
GIC.SH_MAP246_VPE63_32	32	0	rw	
GIC.SH_MAP247_VPE63_32	32	0	rw	
GIC.SH_MAP248_VPE63_32	32	0	rw	
GIC.SH_MAP249_VPE63_32	32	0	rw	
GIC.SH_MAP250_VPE63_32	32	0	rw	
GIC.SH_MAP251_VPE63_32	32	0	rw	
GIC.SH_MAP252_VPE63_32	32	0	rw	
GIC.SH_MAP253_VPE63_32	32	0	rw	
GIC.SH_MAP254_VPE63_32	32	0	rw	
GIC.SH_MAP255_VPE63_32	32	0	rw	
GIC.VB.DINT_SEND	32	0	-w	
GIC.VPE.CTL	32	a	rw	
GIC.VPE.PEND	32	0	r-	
GIC.VPE.MASK	32	7f	r-	
GIC.VPE.RMASK	32	0	-w	
GIC.VPE.SMASK	32	0	-w	
GIC.VPE.WD_MAP	32	40000000	rw	

GIC_VPE_COMPARE_MAP	32	80000000	rw	
GIC_VPE_TIMER_MAP	32	80000005	rw	
GIC_VPE_FDC_MAP	32	80000005	rw	
GIC_VPE_PERFCTR_MAP	32	80000005	rw	
GIC_VPE_SWInt0_MAP	32	80000000	rw	
GIC_VPE_SWInt1_MAP	32	80000000	rw	
GIC_VPE_OTHER_ADDRESS	32	0	rw	
GIC_VPE_IDENT	32	0	r-	
GIC_VPE_WD_CONFIG	32	0	rw	
GIC_VPE_WD_COUNT	32	0	r-	
GIC_VPE_WD_INITIAL	32	0	rw	
GIC_VPE_CompareLo	32	ffffff	rw	
GIC_VPE_CompareHi	32	ffffff	rw	
GIC_VPE_EICSS00	32	0	rw	
GIC_VPE_EICSS01	32	0	rw	
GIC_VPE_EICSS02	32	0	rw	
GIC_VPE_EICSS03	32	0	rw	
GIC_VPE_EICSS04	32	0	rw	
GIC_VPE_EICSS05	32	0	rw	
GIC_VPE_EICSS06	32	0	rw	
GIC_VPE_EICSS07	32	0	rw	
GIC_VPE_EICSS08	32	0	rw	
GIC_VPE_EICSS09	32	0	rw	
GIC_VPE_EICSS10	32	0	rw	
GIC_VPE_EICSS11	32	0	rw	
GIC_VPE_EICSS12	32	0	rw	
GIC_VPE_EICSS13	32	0	rw	
GIC_VPE_EICSS14	32	0	rw	
GIC_VPE_EICSS15	32	0	rw	
GIC_VPE_EICSS16	32	0	rw	
GIC_VPE_EICSS17	32	0	rw	
GIC_VPE_EICSS18	32	0	rw	
GIC_VPE_EICSS19	32	0	rw	
GIC_VPE_EICSS20	32	0	rw	
GIC_VPE_EICSS21	32	0	rw	
GIC_VPE_EICSS22	32	0	rw	
GIC_VPE_EICSS23	32	0	rw	
GIC_VPE_EICSS24	32	0	rw	
GIC_VPE_EICSS25	32	0	rw	
GIC_VPE_EICSS26	32	0	rw	
GIC_VPE_EICSS27	32	0	rw	
GIC_VPE_EICSS28	32	0	rw	
GIC_VPE_EICSS29	32	0	rw	
GIC_VPE_EICSS30	32	0	rw	
GIC_VPE_EICSS31	32	0	rw	
GIC_VPE_EICSS32	32	0	rw	
GIC_VPE_EICSS33	32	0	rw	
GIC_VPE_EICSS34	32	0	rw	
GIC_VPE_EICSS35	32	0	rw	
GIC_VPE_EICSS36	32	0	rw	
GIC_VPE_EICSS37	32	0	rw	
GIC_VPE_EICSS38	32	0	rw	
GIC_VPE_EICSS39	32	0	rw	
GIC_VPE_EICSS40	32	0	rw	
GIC_VPE_EICSS41	32	0	rw	
GIC_VPE_EICSS42	32	0	rw	

GIC_VPE.EICSS43	32	0	rw
GIC_VPE.EICSS44	32	0	rw
GIC_VPE.EICSS45	32	0	rw
GIC_VPE.EICSS46	32	0	rw
GIC_VPE.EICSS47	32	0	rw
GIC_VPE.EICSS48	32	0	rw
GIC_VPE.EICSS49	32	0	rw
GIC_VPE.EICSS50	32	0	rw
GIC_VPE.EICSS51	32	0	rw
GIC_VPE.EICSS52	32	0	rw
GIC_VPE.EICSS53	32	0	rw
GIC_VPE.EICSS54	32	0	rw
GIC_VPE.EICSS55	32	0	rw
GIC_VPE.EICSS56	32	0	rw
GIC_VPE.EICSS57	32	0	rw
GIC_VPE.EICSS58	32	0	rw
GIC_VPE.EICSS59	32	0	rw
GIC_VPE.EICSS60	32	0	rw
GIC_VPE.EICSS61	32	0	rw
GIC_VPE.EICSS62	32	0	rw
GIC_VPE.EICSS63	32	0	rw
GIC_Vx.DINT_PART	32	1	rw
GIC_Cx.BRK_GROUP	32	0	rw
GIC_VPE.CTL	32	a	rw
GIC_VPE.PEND	32	0	r-
GIC_VPE.MASK	32	7f	r-
GIC_VPE.RMASK	32	0	-w
GIC_VPE.SMASK	32	0	-w
GIC_VPE.WD_MAP	32	40000000	rw
GIC_VPE.COMPARE_MAP	32	80000000	rw
GIC_VPE.TIMER_MAP	32	80000005	rw
GIC_VPE.FDC_MAP	32	80000005	rw
GIC_VPE.PERFCTR_MAP	32	80000005	rw
GIC_VPE.SWInt0_MAP	32	80000000	rw
GIC_VPE.SWInt1_MAP	32	80000000	rw
GIC_VPE.OTHER_ADDRESS	32	0	rw
GIC_VPE.IDENT	32	0	r-
GIC_VPE.WD_CONFIG	32	0	rw
GIC_VPE.WD_COUNT	32	0	r-
GIC_VPE.WD_INITIAL	32	0	rw
GIC_VPE.CompareLo	32	ffffff	rw
GIC_VPE.CompareHi	32	ffffff	rw
GIC_VPE.EICSS00	32	0	rw
GIC_VPE.EICSS01	32	0	rw
GIC_VPE.EICSS02	32	0	rw
GIC_VPE.EICSS03	32	0	rw
GIC_VPE.EICSS04	32	0	rw
GIC_VPE.EICSS05	32	0	rw
GIC_VPE.EICSS06	32	0	rw
GIC_VPE.EICSS07	32	0	rw
GIC_VPE.EICSS08	32	0	rw
GIC_VPE.EICSS09	32	0	rw
GIC_VPE.EICSS10	32	0	rw
GIC_VPE.EICSS11	32	0	rw
GIC_VPE.EICSS12	32	0	rw
GIC_VPE.EICSS13	32	0	rw

GIC_VPE.EICSS14	32	0	rw	
GIC_VPE.EICSS15	32	0	rw	
GIC_VPE.EICSS16	32	0	rw	
GIC_VPE.EICSS17	32	0	rw	
GIC_VPE.EICSS18	32	0	rw	
GIC_VPE.EICSS19	32	0	rw	
GIC_VPE.EICSS20	32	0	rw	
GIC_VPE.EICSS21	32	0	rw	
GIC_VPE.EICSS22	32	0	rw	
GIC_VPE.EICSS23	32	0	rw	
GIC_VPE.EICSS24	32	0	rw	
GIC_VPE.EICSS25	32	0	rw	
GIC_VPE.EICSS26	32	0	rw	
GIC_VPE.EICSS27	32	0	rw	
GIC_VPE.EICSS28	32	0	rw	
GIC_VPE.EICSS29	32	0	rw	
GIC_VPE.EICSS30	32	0	rw	
GIC_VPE.EICSS31	32	0	rw	
GIC_VPE.EICSS32	32	0	rw	
GIC_VPE.EICSS33	32	0	rw	
GIC_VPE.EICSS34	32	0	rw	
GIC_VPE.EICSS35	32	0	rw	
GIC_VPE.EICSS36	32	0	rw	
GIC_VPE.EICSS37	32	0	rw	
GIC_VPE.EICSS38	32	0	rw	
GIC_VPE.EICSS39	32	0	rw	
GIC_VPE.EICSS40	32	0	rw	
GIC_VPE.EICSS41	32	0	rw	
GIC_VPE.EICSS42	32	0	rw	
GIC_VPE.EICSS43	32	0	rw	
GIC_VPE.EICSS44	32	0	rw	
GIC_VPE.EICSS45	32	0	rw	
GIC_VPE.EICSS46	32	0	rw	
GIC_VPE.EICSS47	32	0	rw	
GIC_VPE.EICSS48	32	0	rw	
GIC_VPE.EICSS49	32	0	rw	
GIC_VPE.EICSS50	32	0	rw	
GIC_VPE.EICSS51	32	0	rw	
GIC_VPE.EICSS52	32	0	rw	
GIC_VPE.EICSS53	32	0	rw	
GIC_VPE.EICSS54	32	0	rw	
GIC_VPE.EICSS55	32	0	rw	
GIC_VPE.EICSS56	32	0	rw	
GIC_VPE.EICSS57	32	0	rw	
GIC_VPE.EICSS58	32	0	rw	
GIC_VPE.EICSS59	32	0	rw	
GIC_VPE.EICSS60	32	0	rw	
GIC_VPE.EICSS61	32	0	rw	
GIC_VPE.EICSS62	32	0	rw	
GIC_VPE.EICSS63	32	0	rw	
GIC_Vx_DINT_PART	32	1	rw	
GIC_Cx_BRK_GROUP	32	0	rw	
GIC_CounterLoUser	32	0	r-	
GIC_CounterHiUser	32	0	r-	

Table 13.12: Registers at level 4, type:TC group:CMP\_GIC

### 13.4.8 Integration\_support

Registers at level:4, type:TC group:Integration\_support

Name	Bits	Initial-Hex	RW	Description
stop	32	0	rw	write with non-zero to stop processor

Table 13.13: Registers at level 4, type:TC group:Integration\_support