

OVP Guide to Using Processor Models

Model specific information for MIPS_1074Kf

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Model Release Status

This model is released as part of OVP releases and is included in OVPworld packages. Please visit OVPworld.org.

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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

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/ip-vendor-mips.

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 MIPS32 Instruction set implemented

MMU Type: Standard TLB

FPU implemented

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

Vectored interrupts implemented

MIPS16e ASE implemented

DSP ASE Rev 2 implemented

Configuration

2.1 Location

This model's VLNV is mips.ovpworld.org/processor/mips32_r1r5/1.0.

The model source is usually at:

\$IMPERAS_HOME/ImperasLib/source/mips.ovpworld.org/processor/mips32_r1r5/1.0

The model binary is usually at:

\$IMPERAS_HOME/lib/\$IMPERAS_ARCH/ImperasLib/mips.ovpworld.org/processor/mips32_r1r5/1.0

2.2 GDB Path

The default GDB for this model is: \$IMPERAS_HOME/lib/\$IMPERAS_ARCH/gdb/mips-sde-elf-gdb.

2.3 Semi-Host Library

The default semi-host library file is mips.ovpworld.org/semihosting/mips32Newlib/1.0

2.4 Processor Endian-ness

This model can be set to either endian-ness (normally by a pin, or the ELF code).

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: 0x8.

All Variants in this model

This model has these variants

Variant	Description
ISA	
M14K	
M14KcTLB	
M14KcFMM	
4KEc	
4KEm	
4KEp	
M4K	
4Kc	
4Km	
4Kp	
24Kc	
24Kf	
24KEc	
24KEf	
34Kc	
34Kf	
34Kn	
74Kc	
74Kf	
1004Kc	
1004Kf	
1074Kc	
1074Kf	(described in this document)
microAptivC	
microAptivP	
microAptivCF	
interAptiv	
interAptivUP	
proAptiv	

Table 3.1: All Variants in this model

Bus Master Ports

This model has these bus master ports.

Name	min	max	Connect?	Description
INSTRUCTION	12	36	mandatory	
DATA	12	36	optional	

Table 4.1: Bus Master Ports

Bus Slave Ports

This model has no bus slave ports.

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	_	optional	GIC external interrupt
	input	_	
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
reset_CPU0	input	optional	Core reset
hwint0_CPU0	input	optional	External interrupt
hwint1_CPU0	input	optional	External interrupt
hwint2_CPU0	input	optional	External interrupt
$hwint3_CPU0$	input	optional	External interrupt
hwint4_CPU0	input	optional	External interrupt
hwint5_CPU0	input	optional	External interrupt
nmi_CPU0	input	optional	Non-maskable external interrupt
hwint0	input	optional	External interrupt for compatibility
vc_run_CPU0	input	optional	Set to force stop of execution on processor
			VPE (simulation control only)
reset_CPU1	input	optional	Core reset
hwint0_CPU1	input	optional	External interrupt
hwint1_CPU1	input	optional	External interrupt
hwint2_CPU1	input	optional	External interrupt
hwint3_CPU1	input	optional	External interrupt
hwint4_CPU1	input	optional	External interrupt
hwint5_CPU1	input	optional	External interrupt
nmi_CPU1	input	optional	Non-maskable external interrupt
vc_run_CPU1	input	optional	Set to force stop of execution on processor
	_		VPE (simulation control only)
reset_CPU2	input	optional	Core reset
hwint0_CPU2	input	optional	External interrupt
hwint1_CPU2	input	optional	External interrupt
hwint2_CPU2	input	optional	External interrupt
hwint3_CPU2	input	optional	External interrupt
hwint4_CPU2	input	optional	External interrupt
hwint5_CPU2	input	optional	External interrupt
nmi_CPU2	input	optional	Non-maskable external interrupt
vc_run_CPU2	input	optional	Set to force stop of execution on processor
	1		VPE (simulation control only)
reset_CPU3	input	optional	Core reset
hwint0_CPU3	input	optional	External interrupt
hwint1_CPU3	input	optional	External interrupt
	Impar	optionar	2.110011tapt

hwint2_CPU3	input	optional	External interrupt
hwint3_CPU3	input	optional	External interrupt
hwint4_CPU3	input	optional	External interrupt
hwint5_CPU3	input	optional	External interrupt
nmi_CPU3	input	optional	Non-maskable external interrupt
vc_run_CPU3	input	optional	Set to force stop of execution on processor
			VPE (simulation control only)

Table 6.1: Net Ports

FIFO Ports

This model has no FIFO ports.

Formal Parameters

Name	Туре	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
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, ac-
		cesses 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 Con-
		fig1.MMUSizeM1=0)
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)
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
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)
ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC imple-
		mentation (MT cores only)
MTFPU	Uns32	Enable multi-threaded FPU (1:old mttc1 behavior, 2:new
		mttc1 behavior)
supportDenormals	Boolean	Enable to specify that the FPU supports denormal
TIPPOIL MG	***	operands and results
VPE0MaxTC	Uns32	Specifies the maximum TCs initially on VPE0
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 reg-
		ister

mpuSegment1 Uss22 Attributes for segment 1 in MPU2 SegmentControl.0 register			
mpuSegment2 Uns32	mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 reg-
mpuSegment3 Uns32 Attributes for segment 3 in MPU2 SegmentControl.0 register mpuSegment4 Uns32 Attributes for segment 4 in MPU2 SegmentControl.1 register mpuSegment5 Uus32 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 Uus32 Attributes for segment 8 in MPU2 SegmentControl.1 register mpuSegment9 Uus32 Attributes for segment 9 in MPU2 SegmentControl.2 register mpuSegment9 Uus32 Attributes for segment 9 in MPU2 SegmentControl.2 register mpuSegment10 Uus32 Attributes for segment 10 in MPU2 SegmentControl.2 register mpuSegment11 Uus32 Attributes for segment 11 in MPU2 SegmentControl.2 register mpuSegment12 Uus32 Attributes for segment 12 in MPU2 SegmentControl.2 register mpuSegment13 Uus32 Attributes for segment 12 in MPU2 SegmentControl.3 register mpuSegment14 Uus32 Attributes for segment 13 in MPU2 SegmentControl.3 register mpuSegment15 Uus32 Attributes for segment 15 in MPU2 SegmentControl.3 register mpuSegment15 Uus32 Override MVPConf0.PVPE mypconf0tc Uus32 Override MVPConf0.PVPE mypconf0tc Uus32 Override MVPConf0.PVPE mypconf0tc Uus32 Override MVPConf0.PVPE mypconf0tc Uus32 Override MVPConf0.PCP mypconf0tc Uus32 Specify the size of Fast Debug Channel register block statusFR Boolean Override power on value in Status.FR (Floating point register mode) configSP Boolean Override power on value of Config.K0 (set Kseg0 cacheability) configK0 Uus32 Override power on value of Config.K0 (set Kseg0 cacheability) configMDU Override power on value of Config.K3 (set Kseg23 cacheability) configMDU Override Config.DDU (iterative multiply/divide unit) configMT Uus32 Override Config.BD (iterative multiply/divide unit) configBD Boolean Override Config.LDA (cache associativity) configBD Override Config.DDU (iterative multiply/divide unit) configBD Override Config.DDU (iterative multiply/divide unit) configBD Override Config.DDU	G	***	
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config1EP Boolean Override Config1.EP (EJTag present)			- '
config11A Uns32 Override Config1.IA (Icache associativity)			
	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)
config1WR	Boolean	Override Config1.WR (watchpoint registers present)
config1FP	Boolean	Override Config1.FP (FPU present)
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
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
externalinterrupt	Boolean	Override Config3.VEIC (enables the use of an external in-
_		terrupt controller)
vectoredinterrupt	Boolean	Override Config3.VInt (enables vectored interrupts)
config3VZ	Boolean	Override Config3.VZ
config4AE	Boolean	Override Config4.AE
config4IE	Uns32	Override Config4.IE
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation de-
		pends on MMUExtDef value)
config4MMUExtDef	Uns32	Override Config4.MMUExtDef
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt
config5EVA	Boolean	Override Config5.EVA
config5NFExists	Boolean	Override Config5.NFExists
config5MSAEn	Boolean	Override Config5.MSAEn
config6FTLBEn	Boolean	Override power on value of Config6.FTLBEn
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)
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)
firPS	Boolean	Override FIR.PS (PS floating point type implemented)
firHas2008	Boolean	Override FIR.Has2008 (one or more IEEE 754-2008 fea-
		tures present)
intctlIPFDC	Uns32	Override IntCtl.IPFDC
intctlIPTI	Uns32	Override IntCtl.IPTI
pridRevision	Uns32	Override PRId.Revision
srsctlHSS	Uns32	Override SRSCtl.HSS (number of shadow register sets)
ExceptionBase	Uns32	Specify the BEV Exception Base address. (use
		GCR_Cx_RESET_BASE on CMP processors)
	Boolean	Set to one to use ExceptionBase[29:12] as the correspond-
UseExceptionBase	Doolean	ing BEV address bits

first BEVException Base Mask Bit	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
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
GCR_PCORES	Uns32	CMP system only: override GCR_CONFIG.PCORES (number of cores-1)
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_IOCU1_MINOR_REV	Uns32	CMP system only: override GCR_IOCU1_REV.MINOR_REV
GCR_IOCU1_MAJOR_REV	Uns32	CMP system only: override GCR_IOCU1_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_PVPES	Uns32	CMP system only: override GIC_SH_CONFIG.PVPES
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
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_C0_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core 0. Only used when SegCtl present
GCR_C1_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core 1. Only used when SegCtl present

GCR_C2_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core	
		2. Only used when SegCtl present	
GCR_C3_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core	
		3. Only used when SegCtl present	
EIC_OPTION	Uns32	Override the external interrupt controller EIC_OPTION	
ISPRAM_SIZE	Uns32	Encoded size of the ISPRAM region (log2(<ispram size<="" td=""></ispram>	
		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 (log2(<dspram< td=""></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)	

Table 8.1: Parameters that can be set in: CMP

8.1 Parameter values

These are the current parameter values.

Name	Value
(Others)	
variant	1074Kf
endian	none
cacheenable	default
cachedebug	0
cacheextbiuinfo	0x0
mipsHexFile	
IMPERAS_MIPS_AVP_OPCODES	F
cacheIndexBypassTLB	F
MIPS_TRACE	F
supervisorMode	F
busErrors	Т
fixedMMU	F
removeDSP	F
removeCMP	F
removeFP	F
isISA	F
hiddenTLBentries	F
ITCNumEntries	0
ITCNumFIFO	0
MTFPU	0
supportDenormals	F
VPE0MaxTC	0
mpuRegions	0

mpuType	0
mpuEnable	F
mpuSegment0	0
mpuSegment1	0
mpuSegment2	0
mpuSegment3	0
mpuSegment4	0
mpuSegment5	0
mpuSegment6	0
mpuSegment7	0
mpuSegment8	0
mpuSegment9	0
mpuSegment10	0
mpuSegment11	0
mpuSegment12	0
mpuSegment13	0
mpuSegment14	0
mpuSegment15	0
mvpconf0vpe	0
mvpconf0tc	0
mvpconf0pcp	F
mvpconf0tcp	F
hasFDC	0
statusFR	F
configDSP	F
configISP	F
configK0	0
configKU	0
configK23	0
configMDU	F
configMM	F
configMT	0
configSB	F
MIPS16eASE	F
config1DA	0
config1DL	0
config1DS	0
config1EP	F
config1IA	0
config1IL	0
config1IS	0
config1MMUSizeM1	0
config1WR	F
config1FP	F
config3BI	F
O-	

£2DD	
config3BP	F
config3CDMM	F
config3CTXTC	F
config3DSPP	F
config3DSP2P	F
config3IPLW	0
config3ISA	0
config3ISAOnExc	F
config3ITL	F
config3MCU	F
config3MMAR	0
config3RXI	F
config3SC	F
config3ULRI	F
externalinterrupt	F
vectoredinterrupt	F
config3VZ	F
config4AE	F
config4IE	0
config4MMUConfig	0
config4MMUExtDef	0
config4VTLBSizeExt	0
config5EVA	F
config5NFExists	F
config5MSAEn	F
config6FTLBEn	F
config7AR	F
config7DCIDX_MODE	0
config7HCI	F
config7IAR	F
config7WII	F
fcsrABS2008	F
fcsrNAN2008	F
firPS	F
firHas2008	F
intctlIPFDC	0
intctlIPTI	0
pridRevision	0
srsctlHSS	0
ExceptionBase	0
UseExceptionBase	F
firstBEVExceptionBaseMaskBit	20
EVAReset	F
ExceptionBaseMask	0
ExceptionBasePA	0
<u> </u>	1

GIC_EX	F
CPC_EX	F
TIMER_ROUTABLE	F
SWINT_ROUTABLE	F
GCR_PCORES	0
GCR_BASE	0
GCR_MINOR_REV	0
GCR_MAJOR_REV	0
GCR_CACHE_MINOR_REV	0
GCR_CACHE_MAJOR_REV	0
GCR_IOCU1_MINOR_REV	0
GCR_IOCU1_MAJOR_REV	0
GIC_NUMINTERRUPTS	0
GIC_COUNTBITS	0
GIC_MINOR_REV	0
GIC_MAJOR_REV	0
GIC_PVPES	0
CPC_MICROSTEP	0
CPC_RAILDELAY	0
CPC_RESETLEN	0
CPC_MINOR_REV	0
CPC_MAJOR_REV	0
GCR_C0_RESET_BASE	0
GCR_C1_RESET_BASE	0
GCR_C2_RESET_BASE	0
GCR_C3_RESET_BASE	0
GCR_C0_RESET_EXT_BASE	0
GCR_C1_RESET_EXT_BASE	0
GCR_C2_RESET_EXT_BASE	0
GCR_C3_RESET_EXT_BASE	0
EIC_OPTION	2
ISPRAM_SIZE	0
ISPRAM_BASE	0
ISPRAM_ENABLE	F
ISPRAM_FILE	
DSPRAM_SIZE	0
DSPRAM_BASE	0
DSPRAM_ENABLE	F

Table 8.2: Parameter values

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
supervisorMode	Boolean	Override whether processor implements supervisor mode
busErrors	Boolean	Override bus error exception behavior. When true, ac-
		cesses 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 Con-
		fig1.MMUSizeM1=0)
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)
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
ITCNumEntries	Uns32	Specify number of ITC cells present (MT cores only)
ITCNumFIFO	Uns32	Specify number of ITC FIFO cells in reference ITC imple-
		mentation (MT cores only)
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
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 reg-
		ister
mpuSegment1	Uns32	Attributes for segment 1 in MPU2 SegmentControl_0 reg-
		ister
mpuSegment2	Uns32	Attributes for segment 2 in MPU2 SegmentControl_0 reg-
		ister
mpuSegment3	Uns32	Attributes for segment 3 in MPU2 SegmentControl_0 reg-
		ister
mpuSegment4	Uns32	Attributes for segment 4 in MPU2 SegmentControl_1 reg-
		ister
mpuSegment5	Uns32	Attributes for segment 5 in MPU2 SegmentControl_1 reg-
		ister
mpuSegment6	Uns32	Attributes for segment 6 in MPU2 SegmentControl_1 reg-
	**	ister
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 reg-
	TT 00	ister
mpuSegment8	Uns32	Attributes for segment 8 in MPU2 SegmentControl_2 reg-
9 10	TT 5-	ister
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 reg-
0 410	TI 00	ister
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 reg-
		ister

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 relister	
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	
mvpconf0tc	Uns32	Override MVPConf0.PTC	
mvpconf0pcp	Boolean	Override MVPConf0.PCP	
mvpconf0tcp	Boolean	Override MVPConf0.TCP	
hasFDC	Uns32	Specify the size of Fast Debug Channel register block	
statusFR	Boolean	Override power on value in Status.FR (Floating point register 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)	
MIPS16eASE	Boolean	Override Config1.CA (enables the MIPS16e ASE)	
config1DA	Uns32	Override Config1.DA (Deache 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)	
config1WR	Boolean	Override Config1.WR (watchpoint registers present)	
config1FP	Boolean	Override Config1.FP (FPU present)	
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 Override Config3.MCU	
config3MCU config3MMAR	Boolean Uns32	Override Config3.MMAR	
config3RXI	Boolean	Override Config3.RXI	
config3SC	Boolean	Override Config3.RA1 Override Config3.SC	
Coungase	Doolean	Override Comigo.SC	

config3ULRI	Boolean	Override Config3.ULRI	
externalinterrupt	Boolean	Override Config3.VEIC (enables the use of an external in-	
•		terrupt controller)	
vectoredinterrupt	Boolean	Override Config3.VInt (enables vectored interrupts)	
config3VZ	Boolean	Override Config3.VZ	
config4AE	Boolean	Override Config4.AE	
config4IE	Uns32	Override Config4.IE	
config4MMUConfig	Uns32	Override Config4.MMUConfig field (interpretation de-	
0		pends on MMUExtDef value)	
config4MMUExtDef	Uns32	Override Config4.MMUExtDef	
config4VTLBSizeExt	Uns32	Override Config4.VTLBSizeExt	
config5EVA	Boolean	Override Config5.EVA	
config5NFExists	Boolean	Override Config5.NFExists	
config5MSAEn	Boolean	Override Config5.MSAEn	
config6FTLBEn	Boolean	Override power on value of Config6.FTLBEn	
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)	
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)	
firPS	Boolean	Override FIR.PS (PS floating point type implemented)	
firHas2008	Boolean	Override FIR.Has2008 (one or more IEEE 754-2008 fea-	
		tures present)	
intctlIPFDC	Uns32	Override IntCtl.IPFDC	
intctlIPTI	Uns32	Override IntCtl.IPTI	
pridRevision	Uns32	Override PRId.Revision	
srsctlHSS	Uns32	Override SRSCtl.HSS (number of shadow register sets)	
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	
first BEVException Base Mask Bit	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	
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	
GCR_PCORES	Uns32	CMP system only: override GCR_CONFIG.PCORES	
GOILI COILLI	011502	(number of cores-1)	
GCR_BASE	Uns32	CMP system only: override GCR_BASE.GCR_BASE (de-	
GOIL-DADE	011852	fault GCR register address)	
GCR_MINOR_REV	Uns32	CMP system only: override GCR_REV.MINOR_REV	
○ ○ 1 0 _1 1 1 1 1 0 1 0 _1 0 L V	011502	Sill bysocial only. Overlide Colenter vivilivoitates v	

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_IOCU1_MINOR_REV	Uns32	CMP system only: override	
		GCR_IOCU1_REV.MINOR_REV	
GCR_IOCU1_MAJOR_REV	Uns32	CMP system only: override	
		GCR_IOCU1_REV.MAJOR_REV	
GIC_NUMINTERRUPTS	Uns32	CMP system only: override	
~~~		GIC_SH_CONFIG.NUMINTERRUPTS	
GIC_COUNTBITS	Uns32	CMP system only: override	
GIG MINOR PRIV	11 00	GIC_SH_CONFIG.COUNTBITS	
GIC_MINOR_REV	Uns32	CMP system only: override	
CIC MA IOD DEM	11 00	GIC_SH_REVISION.MINOR_REV	
GIC_MAJOR_REV	Uns32	CMP system only: override GIC_SH_REVISION.MAJOR_REV	
GIC_PVPES	II20		
CPC_MICROSTEP	Uns32	CMP system only: override GIC_SH_CONFIG.PVPES	
CPC_RAILDELAY	Uns32	CMP system only: override CPC_SEQDEL.MICROSTEP	
CPC_RAILDELAY CPC_RESETLEN	Uns32	CMP system only: override CPC_RAIL.RAILDELAY  CMP system only: override	
CPC_RESETTEN	Uns32	CMP system only: override CPC_RESETLEN.RESETLEN	
CPC_MINOR_REV	Uns32		
CF C_MINOR_REV	Ulisaz	CMP system only: override CPC_REVISION.MINOR_REV	
CPC_MAJOR_REV	Uns32	CMP system only: override	
CI C_WAJOIt_ItE v	Ulisaz	CMT System only. Override CPC_REVISION.MAJOR_REV	
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_C0_RESET_EXT_BASE	Uns32		
	011502	0. Only used when SegCtl present	
GCR_C1_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core	
		1. Only used when SegCtl present	
GCR_C2_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core	
		2. Only used when SegCtl present	
GCR_C3_RESET_EXT_BASE	Uns32	CMP system only: GCR_CL_RESET_EXT_BASE for core	
		3. Only used when SegCtl present	
EIC_OPTION	Uns32	Override the external interrupt controller EIC_OPTION	
ISPRAM_SIZE	Uns32	Encoded size of the ISPRAM region (log2( <ispram size<="" td=""></ispram>	
		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 (log2( <dspram< td=""></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)	

Table 8.3: Parameters that can be set in: CPU

### 8.2 Parameter values

These are the current parameter values.

Name	Value
(Others)	
endian	none
cacheenable	default
cachedebug	0
cacheextbiuinfo	0x0
mipsHexFile	
IMPERAS_MIPS_AVP_OPCODES	F
cacheIndexBypassTLB	F
MIPS_TRACE	F
supervisorMode	F
busErrors	Т
fixedMMU	F
removeDSP	F
removeCMP	F
removeFP	F
isISA	F
hiddenTLBentries	F
ITCNumEntries	0
ITCNumFIFO	0
MTFPU	0
supportDenormals	F
VPE0MaxTC	0
mpuRegions	0
mpuType	0
mpuEnable	F
mpuSegment0	0
mpuSegment1	0
mpuSegment2	0
mpuSegment3	0
mpuSegment4	0
mpuSegment5	0
mpuSegment6	0
mpuSegment7	0
mpuSegment8	0
mpuSegment9	0
mpuSegment10	0
mpuSegment11	0
mpuSegment12	0
mpuSegment13	0
mpuSegment14	0
mpuSegment15	0
mvpconf0vpe	0

mvpconf0tc	0
mvpconf0pcp	F
mvpconf0tcp	F
hasFDC	0
statusFR	F
configDSP	F
configISP	F
configK0	0
configKU	0
configK23	0
configMDU	F
configMM	F
configMT	0
configSB	F
MIPS16eASE	F
config1DA	0
config1DL	0
config1DS	0
config1EP	F
config1IA config1IL	0
S	0
config1IS	0
config1MMUSizeM1	0 F
config1WR	F
config1FP	F
config3BI	
config3BP	F
config3CDMM	F
config3CTXTC	F
config3DSPP	F
config3DSP2P	F
config3IPLW	0
config3ISA	0
config3ISAOnExc	F
config3ITL	F
config3MCU	F
config3MMAR	0
config3RXI	F
config3SC	F
config3ULRI	F
externalinterrupt	F
vectoredinterrupt	F
config3VZ	F
config4AE	F
config4IE	0

C AMMILO C	0
config4MMUConfig	0
config4MMUExtDef	0
config4VTLBSizeExt	0
config5EVA	F
config5NFExists	F
config5MSAEn	F
config6FTLBEn	F
config7AR	F
config7DCIDX_MODE	0
config7HCI	F
config7IAR	F
config7WII	F
fcsrABS2008	F
fcsrNAN2008	F
firPS	F
firHas2008	F
intctlIPFDC	0
intctlIPTI	0
pridRevision	0
srsctlHSS	0
ExceptionBase	0
UseExceptionBase	F
firstBEVExceptionBaseMaskBit	20
firstBEVExceptionBaseMaskBit EVAReset	20 F
EVAReset ExceptionBaseMask ExceptionBasePA	F
EVAReset ExceptionBaseMask	F 0
EVAReset ExceptionBaseMask ExceptionBasePA	F 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX	F 0 0 F
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX	F 0 0 F F F
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE	F 0 0 F F F
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE	F 0 0 F F F F F
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES	F 0 0 F F F F O
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE	F 0 0 F F F O 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV	F 0 0 F F F 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV	F 0 0 F F F O 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV	F 0 0 F F F O 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_CACHE_MAJOR_REV	F 0 0 F F F O 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV	F 0 0 F F F O 0 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_CACHE_MAJOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MAJOR_REV	F 0 0 F F F O 0 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MINOR_REV GIC_NUMINTERRUPTS GIC_COUNTBITS	F 0 0 F F F F 0 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MAJOR_REV	F 0 0 F F F F O 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MINOR_REV GIC_NUMINTERRUPTS GIC_COUNTBITS GIC_MINOR_REV	F 0 0 F F F F O 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MAJOR_REV GIC_NUMINTERRUPTS GIC_COUNTBITS GIC_MINOR_REV GIC_MAJOR_REV GIC_MAJOR_REV GIC_MAJOR_REV GIC_MINOR_REV	F 0 0 F F F F O 0 0 0 0 0 0 0 0 0 0 0 0
EVAReset ExceptionBaseMask ExceptionBasePA GIC_EX GIC_EX CPC_EX TIMER_ROUTABLE SWINT_ROUTABLE GCR_PCORES GCR_BASE GCR_MINOR_REV GCR_MAJOR_REV GCR_CACHE_MINOR_REV GCR_IOCU1_MINOR_REV GCR_IOCU1_MINOR_REV GIC_NUMINTERRUPTS GIC_COUNTBITS GIC_MAJOR_REV GIC_MAJOR_REV GIC_MAJOR_REV	F 0 0 F F F F O 0 0 0 0 0 0 0 0 0 0 0 0

CPC_RESETLEN	0
CPC_MINOR_REV	0
CPC_MAJOR_REV	0
GCR_C0_RESET_BASE	0
GCR_C1_RESET_BASE	0
GCR_C2_RESET_BASE	0
GCR_C3_RESET_BASE	0
GCR_C0_RESET_EXT_BASE	0
GCR_C1_RESET_EXT_BASE	0
GCR_C2_RESET_EXT_BASE	0
GCR_C3_RESET_EXT_BASE	0
EIC_OPTION	2
ISPRAM_SIZE	0
ISPRAM_BASE	0
ISPRAM_ENABLE	F
ISPRAM_FILE	
DSPRAM_SIZE	0
DSPRAM_BASE	0
DSPRAM_ENABLE	F

Table 8.4: Parameter values

## **Execution Modes**

Mode	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.1: Modes implemented in: CMP

Mode	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.2: Modes implemented in: CPU

# Exceptions

Exception	Code
Int	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Вр	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
Prot	29
CacheErr	30

Table 10.1: Exceptions implemented in: CMP  $\,$ 

Exception	Code

$\operatorname{Int}$	0
Mod	1
TLBL	2
TLBS	3
AdEL	4
AdES	5
IBE	6
DBE	7
Sys	8
Вр	9
RI	10
$\mathrm{CpU}$	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
Prot	29
CacheErr	30

Table 10.2: Exceptions implemented in: CPU

### 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 16 commands. This level in the model hierarchy has 9 register groups:

Group name	Registers
Core	33
FPU	34
DSP	9
Shadow	96
COP0	47
CMP_GCR	27
CMP_CPC	11
CMP_GIC	746
Integration_support	1

Table 11.1: Register groups

$\operatorname{Im}$	peras O	VP Fast	${\bf Processor}$	Model	Documentation	for MIPS_ $1074$ Kf

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
-memory	String	show memory accesses by this instruction. Ar-
		gument can be any combination of X (execute),
		L (load or store access) and S (system)
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-processorname	Boolean	Include processor name in all trace lines
-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
-memory	String	show memory accesses by this instruction. Ar-
		gument can be any combination of X (execute),
		L (load or store access) and S (system)
-off	Boolean	disable instruction tracing
-on	Boolean	enable instruction tracing
-processorname	Boolean	Include processor name in all trace lines
-registerchange	Boolean	show registers changed by this instruction
-registers	Boolean	show registers after each trace

Table 12.4: itrace command arguments

#### 12.2.3 mipsCOP0

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

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

Table 12.5: mipsCOP0 command arguments

#### 12.2.4 mipsCacheDisable

#### 12.2.4.1 Argument description

Disables tag or full cache model

#### 12.2.5 mipsCacheEnable

enable tag or full cache model

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Argument	Type	Description
-debug	Uns32	set cache model debug flags
-full	Boolean	enable full cache model
-tag	Boolean	enable cache tag line only model

Table 12.6: mipsCacheEnable command arguments

#### 12.2.6 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 12.7: mipsCacheRatio command arguments

#### 12.2.7 mipsCacheReport

#### 12.2.7.1 Argument description

Report current cache statistics

#### 12.2.8 mipsCacheReset

#### 12.2.8.1 Argument description

reset the cache model

#### 12.2.9 mipsCacheTrace

Control the tracing of cache accesses

Argument	Type	Description
-noartifact	Boolean	filter artifact accesses
-nocached	Boolean	filter cached accesses
-nodcache	Boolean	filter dcache accesses
-noicache	Boolean	filter icache accesses
-notrue	Boolean	filter true accesses
-nouncached	Boolean	filter uncached accesses
-off	Boolean	turn off the cache tracing
-on	Boolean	turn on the cache tracing

Table 12.8: mipsCacheTrace command arguments

#### 12.2.10 mipsDebugFlags

Set the processor model debug flags to <value>

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

-value U	Jns32 specify	model debug flags
----------	---------------	-------------------

Table 12.9: mipsDebugFlags command arguments

#### 12.2.11 mipsReadRegister

Read a processor register using <resource><offset>

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

Table 12.10: mipsReadRegister command arguments

#### 12.2.12 mipsReadTLBEntry

read a TLB entry specified by the index

Argument	Type	Description
-index	Uns64	select the TLB entry

Table 12.11: mipsReadTLBEntry command arguments

#### 12.2.13 mipsTLBDump

#### 12.2.13.1 Argument description

Dumps the current contents of the TLB

#### 12.2.14 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 12.12: mipsTLBGetPhys command arguments

#### 12.2.15 mipsWriteRegister

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

Argument	Type	Description		
-offset	Uns32	the register offset number		
-resource	Uns32	the register resource number		
-value	Uns64	the register value to be written		

Table 12.13: mipsWriteRegister command arguments

## 12.2.16 mipsWriteTLBEntry

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

Argument	Type	Description		
-hi0	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 12.14: mipsWriteTLBEntry command arguments

# Chapter 13

# Registers

## 13.1 Level 1: CMP

No registers.

13.2 Level 2: CPU

### 13.2.1 Core

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

Name	Bits	Initial-Hex	RW	Description
zero	32	0	r-	constant zero
at	32	0	rw	
v0	32	0	rw	
v1	32	0	rw	
a0	32	0	rw	
a1	32	0	rw	
a2	32	0	rw	
a3	32	0	rw	
t0	32	0	rw	
t1	32	0	rw	
t2	32	0	rw	
t3	32	0	rw	
t4	32	0	rw	
t5	32	0	rw	
t6	32	0	rw	
t7	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	
$\operatorname{sp}$	32	0	rw	stack pointer
s8	32	0	rw	frame pointer
ra	32	0	rw	
pc	32	bfc00000	rw	program counter

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

#### 13.2.2 FPU

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

Name	Bits	Initial-Hex	RW	Description
f0	32	0	rw	
f1	32	0	rw	
f2	32	0	rw	
f3	32	0	rw	
f4	32	0	rw	
f5	32	0	rw	
f6	32	0	rw	
f7	32	0	rw	
f8	32	0	rw	
f9	32	0	rw	
f10	32	0	rw	
f11	32	0	rw	
f12	32	0	rw	
f13	32	0	rw	
f14	32	0	rw	
f15	32	0	rw	
f16	32	0	rw	
f17	32	0	rw	
f18	32	0	rw	
f19	32	0	rw	
f20	32	0	rw	
f21	32	0	rw	
f22	32	0	rw	
f23	32	0	rw	
f24	32	0	rw	
f25	32	0	rw	
f26	32	0	rw	
f27	32	0	rw	
f28	32	0	rw	
f29	32	0	rw	
f30	32	0	rw	
f31	32	0	rw	
fsr	32	0	rw	floating point status
fir	32	739a00	r-	floating point information

Table 13.2: Registers at level 2, type:CPU group:FPU

#### 13.2.3 DSP

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

Name   Bits   Initial-Hex   RW   Description
----------------------------------------------

lo	32	0	rw	
hi	32	0	rw	
lo1	32	0	rw	
hi1	32	0	rw	
lo2	32	0	rw	
hi2	32	0	rw	
lo3	32	0	rw	
hi3	32	0	rw	
dspctl	32	0	rw	DSP control

Table 13.3: Registers at level 2, type:CPU group:DSP

## 13.2.4 Shadow

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

Name	Bits	Initial-Hex	RW	Description
zero[1]	32	0	r-	constant zero
at[1]	32	0	rw	
v0[1]	32	0	rw	
v1[1]	32	0	rw	
a0[1]	32	0	rw	
a1[1]	32	0	rw	
a2[1]	32	0	rw	
a3[1]	32	0	rw	
t0[1]	32	0	rw	
t1[1]	32	0	rw	
t2[1]	32	0	rw	
t3[1]	32	0	rw	
t4[1]	32	0	rw	
t5[1]	32	0	rw	
t6[1]	32	0	rw	
t7[1]	32	0	rw	
s0[1]	32	0	rw	
s1[1]	32	0	rw	
s2[1]	32	0	rw	
s3[1]	32	0	rw	
s4[1]	32	0	rw	
s5[1]	32	0	rw	
s6[1]	32	0	rw	
s7[1]	32	0	rw	
t8[1]	32	0	rw	
t9[1]	32	0	rw	
k0[1]	32	0	rw	
k1[1]	32	0	rw	
gp[1]	32	0	rw	
sp[1]	32	0	rw	stack pointer
s8[1]	32	0	rw	frame pointer
ra[1]	32	0	rw	
zero[2]	32	0	r-	constant zero
at[2]	32	0	rw	
v0[2]	32	0	rw	
v1[2]	32	0	rw	
a0[2]	32	0	rw	
a1[2]	32	0	rw	
a2[2]	32	0	rw	

		1		
a3[2]	32	0	rw	
t0[2]	32	0	rw	
t1[2]	32	0	rw	
t2[2]	32	0	rw	
t3[2]	32	0	rw	
t4[2]	32	0	rw	
t5[2]	32	0	rw	
t6[2]	32	0	rw	
t7[2]	32	0	rw	
s0[2]	32	0		
50[2] c1[9]	32	0	rw	
s1[2]			rw	
s2[2]	32	0	rw	
s3[2]	32	0	rw	
s4[2]	32	0	rw	
s5[2]	32	0	rw	
s6[2]	32	0	rw	
s7[2]	32	0	rw	
t8[2]	32	0	rw	
t9[2]	32	0	rw	
k0[2]	32	0	rw	
k1[2]	32	0	rw	
gp[2]	32	0	rw	
$\operatorname{sp}[2]$	32	0	rw	stack pointer
s8[2]	32	0	rw	frame pointer
ra[2]	32	0		traine pointer
	32		rw	
zero[3]		0	r-	constant zero
at[3]	32	0	rw	
v0[3]	32	0	rw	
v1[3]	32	0	rw	
a0[3]	32	0	rw	
a1[3]	32	0	rw	
a2[3]	32	0	rw	
a3[3]	32	0	rw	
t0[3]	32	0	rw	
t1[3]	32	0	rw	
t2[3]	32	0	rw	
t3[3]	32	0	rw	
t4[3]	32	0	rw	
t5[3]	32	0	rw	
t6[3]	32	0	rw	
t7[3]	32	0		
s0[3]	32	0	rw	
			rw	
s1[3]	32	0	rw	
s2[3]	32	0	rw	
s3[3]	32	0	rw	
s4[3]	32	0	rw	
s5[3]	32	0	rw	
s6[3]	32	0	rw	
s7[3]	32	0	rw	
t8[3]	32	0	rw	
t9[3]	32	0	rw	
k0[3]	32	0	rw	
k1[3]	32	0	rw	
gp[3]	32	0	rw	
$\operatorname{sp}[3]$	32	0	rw	stack pointer
s8[3]	32	0	rw	frame pointer
1000	02	"	1 VV	nume pointer

[9]	90	0		
ral31	32	()	rw	
[-]	~-			

Table 13.4: Registers at level 2, type:CPU group:Shadow

#### 13.2.5 COP0

Registers at level:2, type:CPU 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 (badvaaddr)
cause	32	0	rw	CP0 register 13/0 (cause)
index	32	0	rw	CP0 register 0/0
random	32	0	rw	CP0 register 1/0
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
userlocal	32	0	rw	CP0 register 4/2
pagemask	32	0	rw	CP0 register 5/0
wired	32	0	rw	CP0 register 6/0
hwrena	32	0	rw	CP0 register 7/0
badvaddr	32	0	rw	CP0 register 8/0
count	32	0	rw	CP0 register 9/0
entryhi	32	0	rw	CP0 register 10/0
compare	32	0		CP0 register 11/0
status	32	400004	rw	CP0 register 12/0
intctl	32	e0000000	rw	CP0 register 12/0 CP0 register 12/1
srsctl	32	c000000	rw	CP0 register 12/1 CP0 register 12/2
			rw	CP0 register 12/2 CP0 register 12/3
srsmap	32	0	rw	
epc		0	rw	CP0 register 14/0
prid	32	19a00	rw	CP0 register 15/0
ebase	32	80000000	rw	CP0 register 15/1
cmgcrbase	32	1fbf800	rw	CP0 register 15/3
config	32	80048482	rw	CP0 register 16/0
config1	32	9e231187	rw	CP0 register 16/1
config2	32	80000000	rw	CP0 register 16/2
config3	32	20002e20	rw	CP0 register 16/3
config6	32	202	rw	CP0 register 16/6
config7	32	80000000	rw	CP0 register 16/7
lladdr	32	0	rw	CP0 register 17/0
debug	32	2018000	rw	CP0 register 23/0
depc	32	0	rw	CP0 register 24/0
errctl	32	0	rw	CP0 register 26/0
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
l23taglo	32	0	rw	CP0 register 28/4
l23datalo	32	0	rw	CP0 register 28/5
itaghi	32	0	rw	CP0 register 29/0
idatahi	32	0	rw	CP0 register 29/1
dtaghi	32	0	rw	CP0 register 29/2
l23datahi	32	0	rw	CP0 register 29/5
errorepc	32	0	rw	CP0 register 30/0
desave	32	0	rw	CP0  register  31/0

Table 13.5: Registers at level 2, type:CPU group:COP0

#### 13.2.6 CMP_GCR

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

Name	Bits	Initial-Hex	RW	Description
GCR_CONFIG	32	3	r-	
GCR_BASE	32	1fbf8000	rw	
GCR_CONTROL	32	10001	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_MULT	32	0	rw	
GCR_GIC_BASE	32	0	rw	
GCR_CPC_BASE	32	0	rw	
GCR_GIC_STATUS	32	1	r-	
GCR_CACHE_REV	32	0	r-	
GCR_CPC_STATUS	32	1	r-	
GCR_IOCU1_REV	32	0	r-	
GCR_CL_RESET_RELEASE_L	32	0	-w	
GCR_CL_COHERENCE_L	32	0	rw	
GCR_CL_CONFIG_L	32	0	r-	
GCR_CL_OTHER_L	32	0	rw	
GCR_CL_RESET_BASE_L	32	bfc00000	rw	
GCR_CL_ID_L	32	0	r-	
GCR_CL_RESET_RELEASE_O	32	0	-w	
GCR_CL_COHERENCE_O	32	0	rw	
GCR_CL_CONFIG_O	32	0	r-	
GCR_CL_OTHER_O	32	0	rw	
GCR_CL_RESET_BASE_O	32	bfc00000	rw	
GCR_CL_ID_O	32	0	r-	

Table 13.6: Registers at level 2, type:CPU group:CMP_GCR

#### 13.2.7 CMP_CPC

Registers at level:2, type:CPU 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_L	32	0	rw	
CPC_STAT_CONF_L	32	380200	rw	
CPC_OTHER_L	32	0	rw	
CPC_CMD_O	32	0	rw	
CPC_STAT_CONF_O	32	380200	rw	
CPC_OTHER_O	32	0	rw	

Table 13.7: Registers at level 2, type:CPU group:CMP_CPC

## 13.2.8 CMP_GIC

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

Name	Bits	Initial-Hex	RW	Description
GIC_SH_CONFIG	32	8040003	rw	Bescription
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	+	
GIC_SH_POL127_96	32	0	rw	
GIC_SH_POL159_128	32	0	rw	
GIC_SH_POL139_128 GIC_SH_POL191_160	32	0	rw	
GIC_SH_POL191_100 GIC_SH_POL223_192	32	0	rw	
GIC_SH_POL225_192 GIC_SH_POL255_224	32	0	rw	
GIC_SH_POL255_224 GIC_SH_TRIG31_0	1		rw	
	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-	
010_D11_W11D11220_102	1 52	J	1-	

	1	T _		T
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	8000000	-	
			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	-	
GIC_SH_MAP030_PIN	32	80000000	rw	
GIC_SH_MAP031_PIN GIC_SH_MAP032_PIN	32		rw	
		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	80000000	rw	
GIC_SH_MAP041_PIN	32	80000000	rw	
GIC_SH_MAP042_PIN	32	80000000	rw	
GIC_SH_MAP043_PIN	32	80000000	rw	
GIC_SH_MAP044_PIN	32	80000000	rw	
GIC_SH_MAP045_PIN	32	80000000	rw	
GIC_SH_MAP046_PIN	32	80000000	rw	
	1 52	3000000	T 44	<u> </u>

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GIC_SH_MAP047_PIN	32	80000000	rw	
GIC_SH_MAP048_PIN	32	80000000	rw	
GIC_SH_MAP049_PIN	32	80000000	rw	
GIC_SH_MAP050_PIN	32	80000000	rw	
GIC_SH_MAP051_PIN	32	80000000	rw	
GIC_SH_MAP052_PIN	32	80000000	rw	
GIC_SH_MAP053_PIN	32	80000000	rw	
GIC_SH_MAP054_PIN	32	80000000	rw	
GIC_SH_MAP055_PIN	32	80000000	rw	
GIC_SH_MAP056_PIN	32	80000000	rw	
GIC_SH_MAP057_PIN	32	80000000	rw	
GIC_SH_MAP058_PIN	32	80000000	rw	
GIC_SH_MAP059_PIN	32	80000000	rw	
GIC_SH_MAP060_PIN	32	80000000	rw	
GIC_SH_MAP061_PIN	32	80000000	rw	
GIC_SH_MAP062_PIN	32	80000000	rw	
GIC SH MAP063 PIN	32	80000000	rw	
GIC_SH_MAP064_PIN	32	80000000	rw	
GIC_SH_MAP065_PIN	32	80000000	rw	
GIC_SH_MAP066_PIN	32	80000000	rw	
GIC_SH_MAP067_PIN	32	80000000	rw	
GIC_SH_MAP068_PIN	32	80000000	rw	
GIC_SH_MAP069_PIN	32	80000000	rw	
GIC_SH_MAP070_PIN	32	80000000	+	
GIC_SH_MAP071_PIN	32	80000000	rw	
GIC_SH_MAP071_FIN	32	80000000	rw	
			rw	
GIC_SH_MAP073_PIN	32	80000000	rw	
GIC_SH_MAP074_PIN	32	80000000	rw	
GIC_SH_MAP075_PIN	32	80000000	rw	
GIC_SH_MAP076_PIN	32	80000000	rw	
GIC_SH_MAP077_PIN	32	80000000	rw	
GIC_SH_MAP078_PIN	32	80000000	rw	
GIC_SH_MAP079_PIN	32	80000000	rw	
GIC_SH_MAP080_PIN	32	80000000	rw	
GIC_SH_MAP081_PIN	32	80000000	rw	
GIC_SH_MAP082_PIN	32	80000000	rw	
GIC_SH_MAP083_PIN	32	80000000	rw	
GIC_SH_MAP084_PIN	32	80000000	rw	
GIC_SH_MAP085_PIN	32	80000000	rw	
GIC_SH_MAP086_PIN	32	80000000	rw	
GIC_SH_MAP087_PIN	32	80000000	rw	
GIC_SH_MAP088_PIN	32	80000000	rw	
GIC_SH_MAP089_PIN	32	80000000	rw	
GIC_SH_MAP090_PIN	32	80000000	rw	
GIC_SH_MAP091_PIN	32	80000000	rw	
GIC_SH_MAP092_PIN	32	80000000	rw	
GIC_SH_MAP093_PIN	32	80000000	rw	
GIC_SH_MAP094_PIN	32	80000000	rw	
GIC_SH_MAP095_PIN	32	80000000	rw	
GIC_SH_MAP096_PIN	32	80000000	rw	
GIC_SH_MAP097_PIN	32	80000000	rw	
GIC_SH_MAP098_PIN	32	80000000	rw	
GIC_SH_MAP099_PIN	32	80000000	rw	
GIC_SH_MAP100_PIN	32	80000000	rw	
GIC_SH_MAP101_PIN	32	80000000	rw	
GIC_SH_MAP102_PIN	32	80000000	rw	
0.10_0.11_1.1111 102_1 11V	1 32	55555555	T 44	

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GIC_SH_MAP103_PIN	32	80000000	rw	
GIC_SH_MAP104_PIN	32	80000000	rw	
GIC_SH_MAP105_PIN	32	80000000	rw	
GIC_SH_MAP106_PIN	32	80000000	rw	
GIC_SH_MAP107_PIN	32	80000000	rw	
GIC_SH_MAP108_PIN	32	80000000	rw	
GIC_SH_MAP109_PIN	32	80000000	rw	
GIC_SH_MAP110_PIN	32	80000000	rw	
GIC_SH_MAP111_PIN	32	80000000	rw	
GIC_SH_MAP112_PIN	32	80000000	rw	
GIC_SH_MAP113_PIN	32	80000000	rw	
GIC_SH_MAP114_PIN	32	80000000	rw	
GIC_SH_MAP115_PIN	32	80000000	rw	
GIC_SH_MAP116_PIN	32	80000000	rw	
GIC_SH_MAP117_PIN	32	80000000	rw	
GIC_SH_MAP118_PIN	32	80000000	rw	
GIC_SH_MAP119_PIN	32	80000000	rw	
GIC_SH_MAP120_PIN	32	80000000	rw	
GIC_SH_MAP121_PIN	32	80000000	rw	
GIC_SH_MAP122_PIN	32	80000000	rw	
GIC_SH_MAP123_PIN	32	80000000	rw	
GIC_SH_MAP124_PIN	32	80000000	rw	
GIC_SH_MAP125_PIN	32	80000000	rw	
GIC_SH_MAP126_PIN	32	80000000	+	
GIC_SH_MAP127_PIN	32	80000000	rw	
GIC_SH_MAP128_PIN	32	80000000	rw	
			rw	
GIC_SH_MAP129_PIN	32	80000000	rw	
GIC_SH_MAP130_PIN	32	80000000	rw	
GIC_SH_MAP131_PIN	32	80000000	rw	
GIC_SH_MAP132_PIN	32	80000000	rw	
GIC_SH_MAP133_PIN	32	80000000	rw	
GIC_SH_MAP134_PIN	32	80000000	rw	
GIC_SH_MAP135_PIN	32	80000000	rw	
GIC_SH_MAP136_PIN	32	80000000	rw	
GIC_SH_MAP137_PIN	32	80000000	rw	
GIC_SH_MAP138_PIN	32	80000000	rw	
GIC_SH_MAP139_PIN	32	80000000	rw	
GIC_SH_MAP140_PIN	32	80000000	rw	
GIC_SH_MAP141_PIN	32	80000000	rw	
GIC_SH_MAP142_PIN	32	80000000	rw	
GIC_SH_MAP143_PIN	32	80000000	rw	
GIC_SH_MAP144_PIN	32	80000000	rw	
GIC_SH_MAP145_PIN	32	80000000	rw	
GIC_SH_MAP146_PIN	32	80000000	rw	
GIC_SH_MAP147_PIN	32	80000000	rw	
GIC_SH_MAP148_PIN	32	80000000	rw	
GIC_SH_MAP149_PIN	32	80000000	rw	
GIC_SH_MAP150_PIN	32	80000000	rw	
GIC_SH_MAP151_PIN	32	80000000	rw	
GIC_SH_MAP152_PIN	32	80000000	rw	
GIC_SH_MAP153_PIN	32	80000000	rw	
GIC_SH_MAP154_PIN	32	80000000	rw	
GIC_SH_MAP155_PIN	32	80000000	rw	
GIC_SH_MAP156_PIN	32	80000000	rw	
GIC_SH_MAP157_PIN	32	80000000	rw	
GIC_SH_MAP158_PIN	32	80000000	rw	
	1 32	55555555	T 44	

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GIC_SH_MAP159_PIN	32	80000000	rw	
GIC_SH_MAP160_PIN	32	80000000	rw	
GIC_SH_MAP161_PIN	32	80000000	rw	
GIC_SH_MAP162_PIN	32	80000000	rw	
GIC_SH_MAP163_PIN	32	80000000	rw	
GIC_SH_MAP164_PIN	32	80000000	rw	
GIC_SH_MAP165_PIN	32	80000000	rw	
GIC_SH_MAP166_PIN	32	80000000	rw	
GIC_SH_MAP167_PIN	32	80000000	rw	
GIC_SH_MAP168_PIN	32	80000000	rw	
GIC_SH_MAP169_PIN	32	80000000	rw	
GIC_SH_MAP170_PIN	32	80000000	rw	
GIC_SH_MAP171_PIN	32	80000000	rw	
GIC_SH_MAP172_PIN	32	80000000	rw	
GIC_SH_MAP173_PIN	32	80000000	rw	
GIC_SH_MAP174_PIN	32	80000000	rw	
GIC_SH_MAP175_PIN	32	80000000	rw	
GIC_SH_MAP176_PIN	32	80000000	rw	
GIC_SH_MAP177_PIN	32	80000000	rw	
GIC_SH_MAP178_PIN	32	80000000	rw	
GIC_SH_MAP179_PIN	32	80000000	rw	
GIC_SH_MAP180_PIN	32	80000000		
GIC_SH_MAP180_FIN	32	8000000	rw	
	32		rw	
GIC_SH_MAP182_PIN		80000000	rw	
GIC_SH_MAP184_PIN	32	80000000	rw	
GIC_SH_MAP184_PIN	32	80000000	rw	
GIC_SH_MAP185_PIN	32	80000000	rw	
GIC_SH_MAP186_PIN	32	80000000	rw	
GIC_SH_MAP187_PIN	32	80000000	rw	
GIC_SH_MAP188_PIN	32	80000000	rw	
GIC_SH_MAP189_PIN	32	80000000	rw	
GIC_SH_MAP190_PIN	32	80000000	rw	
GIC_SH_MAP191_PIN	32	80000000	rw	
GIC_SH_MAP192_PIN	32	80000000	rw	
GIC_SH_MAP193_PIN	32	80000000	rw	
GIC_SH_MAP194_PIN	32	80000000	rw	
GIC_SH_MAP195_PIN	32	80000000	rw	
GIC_SH_MAP196_PIN	32	80000000	rw	
GIC_SH_MAP197_PIN	32	80000000	rw	
GIC_SH_MAP198_PIN	32	80000000	rw	
GIC_SH_MAP199_PIN	32	80000000	rw	
GIC_SH_MAP200_PIN	32	80000000	rw	
GIC_SH_MAP201_PIN	32	80000000	rw	
GIC_SH_MAP202_PIN	32	80000000	rw	
GIC_SH_MAP203_PIN	32	80000000	rw	
GIC_SH_MAP204_PIN	32	80000000	rw	
GIC_SH_MAP205_PIN	32	80000000	rw	
GIC_SH_MAP206_PIN	32	80000000		
GIC_SH_MAP207_PIN	32	80000000	rw	
GIC_SH_MAP208_PIN		80000000	rw	
	32		rw	
GIC_SH_MAP210_PIN	32	80000000	rw	
GIC_SH_MAP210_PIN	32	80000000	rw	
GIC_SH_MAP211_PIN	32	80000000	rw	
GIC_SH_MAP212_PIN	32	80000000	rw	
GIC_SH_MAP213_PIN	32	80000000	rw	
GIC_SH_MAP214_PIN	32	80000000	rw	

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GIC_SH_MAP215_PIN	32	80000000	rw	
GIC_SH_MAP216_PIN	32	80000000	rw	
GIC_SH_MAP217_PIN	32	80000000	rw	
GIC_SH_MAP218_PIN	32	80000000	rw	
GIC_SH_MAP219_PIN	32	80000000	rw	
GIC_SH_MAP220_PIN	32	80000000	rw	
GIC_SH_MAP221_PIN	32	80000000	rw	
GIC_SH_MAP222_PIN	32	80000000	rw	
GIC_SH_MAP223_PIN	32	80000000	rw	
GIC_SH_MAP224_PIN	32	80000000	rw	
GIC_SH_MAP225_PIN	32	80000000	rw	
GIC_SH_MAP226_PIN	32	80000000	rw	
GIC_SH_MAP227_PIN	32	80000000	rw	
GIC_SH_MAP228_PIN	32	80000000	rw	
GIC_SH_MAP229_PIN	32	80000000	rw	
GIC_SH_MAP230_PIN	32	8000000	+	
GIC_SH_MAP231_PIN	32	8000000	rw	
			rw	
GIC_SH_MAP232_PIN	32	80000000	rw	
GIC_SH_MAP233_PIN	32	80000000	rw	
GIC_SH_MAP234_PIN	32	80000000	rw	
GIC_SH_MAP235_PIN	32	80000000	rw	
GIC_SH_MAP236_PIN	32	80000000	rw	
GIC_SH_MAP237_PIN	32	80000000	rw	
GIC_SH_MAP238_PIN	32	80000000	rw	
GIC_SH_MAP239_PIN	32	80000000	rw	
GIC_SH_MAP240_PIN	32	80000000	rw	
GIC_SH_MAP241_PIN	32	80000000	rw	
GIC_SH_MAP242_PIN	32	80000000	rw	
GIC_SH_MAP243_PIN	32	80000000	rw	
GIC_SH_MAP244_PIN	32	80000000	rw	
GIC_SH_MAP245_PIN	32	80000000	rw	
GIC_SH_MAP246_PIN	32	80000000	rw	
GIC_SH_MAP247_PIN	32	80000000	rw	
GIC_SH_MAP248_PIN	32	80000000	rw	
GIC_SH_MAP249_PIN	32	80000000	rw	
GIC_SH_MAP250_PIN	32	80000000		
GIC_SH_MAP251_PIN	32	80000000	rw	
GIC_SH_MAP252_PIN	32		rw	
GIC_SH_MAP253_PIN		80000000 80000000	rw	
	32		rw	
GIC_SH_MAP254_PIN	32	80000000	rw	
GIC_SH_MAP255_PIN	32	80000000	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	
010_011_WAT 014_V1 E31_0	1 52	U	1 W	<u> </u>

GIC_SH_MAP015_VPE31_0 GIC_SH_MAP016_VPE31_0	32	0		
GIC_SH_MAP016_VPE31_0	-	U	rw	
	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		
GIC_SH_MAP032_VPE31_0	32	0	rw	
GIC_SH_MAP033_VPE31_0	32	0	rw	
	~-	-	rw	
GIC_SH_MAP034_VPE31_0	32	0	rw	
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	
GIC_SH_MAP051_VPE31_0	32	0	rw	
GIC_SH_MAP052_VPE31_0	32	0	rw	
GIC_SH_MAP053_VPE31_0	32	0	rw	
GIC_SH_MAP054_VPE31_0	32	0	rw	
GIC_SH_MAP055_VPE31_0	32	0	rw	
GIC_SH_MAP056_VPE31_0	32	0	rw	
GIC_SH_MAP057_VPE31_0	32	0	rw	
GIC_SH_MAP058_VPE31_0	32	0		
GIC_SH_MAP059_VPE31_0	32	0	rw	
GIC_SH_MAP060_VPE31_0	32	0	rw	
	32	0	rw	
GIC_SH_MAP061_VPE31_0		_	rw	
GIC_SH_MAP062_VPE31_0	32	0	rw	
GIC_SH_MAP063_VPE31_0	32	0	rw	
GIC_SH_MAP064_VPE31_0	32	0	rw	
GIC_SH_MAP065_VPE31_0	32	0	rw	
GIC_SH_MAP066_VPE31_0	32	0	rw	
GIC_SH_MAP067_VPE31_0	32	0	rw	
GIC_SH_MAP068_VPE31_0	32	0	rw	
GIC_SH_MAP069_VPE31_0	32	0	rw	
GIC_SH_MAP070_VPE31_0	32	0	rw	

GIC_SH_MAP071_VPE31_0	32	0	rw	
GIC_SH_MAP072_VPE31_0	32	0	rw	
GIC_SH_MAP073_VPE31_0	32	0	rw	
GIC_SH_MAP074_VPE31_0	32	0	rw	
GIC_SH_MAP075_VPE31_0	32	0	rw	
GIC_SH_MAP076_VPE31_0	32	0	rw	
GIC_SH_MAP077_VPE31_0	32	0	rw	
GIC_SH_MAP078_VPE31_0	32	0	rw	
GIC_SH_MAP079_VPE31_0	32	0	rw	
GIC_SH_MAP080_VPE31_0	32	0	rw	
GIC_SH_MAP081_VPE31_0	32	0	rw	
GIC_SH_MAP082_VPE31_0	32	0	rw	
GIC_SH_MAP083_VPE31_0	32	0	rw	
GIC_SH_MAP084_VPE31_0	32	0	rw	
GIC_SH_MAP085_VPE31_0	32	0	rw	
GIC_SH_MAP086_VPE31_0	32	0	rw	
GIC_SH_MAP087_VPE31_0	32	0	rw	
GIC_SH_MAP088_VPE31_0	32	0	rw	
GIC_SH_MAP089_VPE31_0	32	0	rw	
GIC_SH_MAP090_VPE31_0	32	0		
GIC_SH_MAP091_VPE31_0	32	0	rw	
GIC_SH_MAP091_VFE31_0	32	0	rw	
	_	-	rw	
GIC_SH_MAP093_VPE31_0	32	0	rw	
GIC_SH_MAP094_VPE31_0	32	0	rw	
GIC_SH_MAP095_VPE31_0	32	0	rw	
GIC_SH_MAP096_VPE31_0	32	0	rw	
GIC_SH_MAP097_VPE31_0	32	0	rw	
GIC_SH_MAP098_VPE31_0	32	0	rw	
GIC_SH_MAP099_VPE31_0	32	0	rw	
GIC_SH_MAP100_VPE31_0	32	0	rw	
GIC_SH_MAP101_VPE31_0	32	0	rw	
GIC_SH_MAP102_VPE31_0	32	0	rw	
GIC_SH_MAP103_VPE31_0	32	0	rw	
GIC_SH_MAP104_VPE31_0	32	0	rw	
GIC_SH_MAP105_VPE31_0	32	0	rw	
GIC_SH_MAP106_VPE31_0	32	0	rw	
GIC_SH_MAP107_VPE31_0	32	0	rw	
GIC_SH_MAP108_VPE31_0	32	0	rw	
GIC_SH_MAP109_VPE31_0	32	0	rw	
GIC_SH_MAP110_VPE31_0	32	0	rw	
GIC_SH_MAP111_VPE31_0	32	0	rw	
GIC_SH_MAP112_VPE31_0	32	0	rw	
GIC_SH_MAP113_VPE31_0	32	0	rw	
GIC_SH_MAP114_VPE31_0	32	0	rw	
GIC_SH_MAP115_VPE31_0	32	0	rw	
GIC_SH_MAP116_VPE31_0	32	0	rw	
GIC_SH_MAP117_VPE31_0	32	0	rw	
GIC_SH_MAP118_VPE31_0	32	0	rw	
GIC_SH_MAP119_VPE31_0	32	0	rw	
GIC_SH_MAP120_VPE31_0	32	0		
GIC_SH_MAP121_VPE31_0	32	0	rw	
GIC_SH_MAP121_VPE31_0	32	0	rw	
GIC_SH_MAP123_VPE31_0	32	_	rw	
		0	rw	
GIC_SH_MAP124_VPE31_0	32	-	rw	
GIC_SH_MAP125_VPE31_0	32	0	rw	
GIC_SH_MAP126_VPE31_0	32	0	rw	

GIC_SH_MAP127_VPE31_0	32	0	rw	
GIC_SH_MAP128_VPE31_0	32	0	rw	
GIC_SH_MAP129_VPE31_0	32	0	rw	
GIC_SH_MAP130_VPE31_0	32	0	rw	
GIC_SH_MAP131_VPE31_0	32	0	rw	
GIC_SH_MAP132_VPE31_0	32	0	rw	
GIC_SH_MAP133_VPE31_0	32	0	rw	
GIC_SH_MAP134_VPE31_0	32	0	rw	
GIC_SH_MAP135_VPE31_0	32	0	rw	
GIC_SH_MAP136_VPE31_0	32	0	rw	
GIC_SH_MAP137_VPE31_0	32	0	rw	
GIC_SH_MAP138_VPE31_0	32	0	rw	
GIC_SH_MAP139_VPE31_0	32	0	rw	
GIC_SH_MAP140_VPE31_0	32	0	rw	
GIC_SH_MAP141_VPE31_0	32	0	rw	
GIC_SH_MAP142_VPE31_0	32	0		_
GIC_SH_MAP143_VPE31_0	32	0	rw	
	32	_	rw	
GIC_SH_MAP144_VPE31_0		0	rw	
GIC_SH_MAP145_VPE31_0	32	0	rw	
GIC_SH_MAP146_VPE31_0	32	0	rw	
GIC_SH_MAP147_VPE31_0	32	0	rw	
GIC_SH_MAP148_VPE31_0	32	0	rw	
GIC_SH_MAP149_VPE31_0	32	0	rw	
GIC_SH_MAP150_VPE31_0	32	0	rw	
GIC_SH_MAP151_VPE31_0	32	0	rw	
GIC_SH_MAP152_VPE31_0	32	0	rw	
GIC_SH_MAP153_VPE31_0	32	0	rw	
GIC_SH_MAP154_VPE31_0	32	0	rw	
GIC_SH_MAP155_VPE31_0	32	0	rw	
GIC_SH_MAP156_VPE31_0	32	0	rw	
GIC_SH_MAP157_VPE31_0	32	0	rw	
GIC_SH_MAP158_VPE31_0	32	0	rw	
GIC_SH_MAP159_VPE31_0	32	0	rw	
GIC_SH_MAP160_VPE31_0	32	0	rw	
GIC_SH_MAP161_VPE31_0	32	0	rw	
GIC_SH_MAP162_VPE31_0	32	0	rw	
GIC_SH_MAP163_VPE31_0	32	0	rw	
GIC_SH_MAP164_VPE31_0	32	0	-	
GIC_SH_MAP165_VPE31_0	32	0	rw	
		ŭ.	rw	
GIC_SH_MAP166_VPE31_0	32	0	rw	
GIC_SH_MAP167_VPE31_0	32	0	rw	
GIC_SH_MAP168_VPE31_0	32	0	rw	
GIC_SH_MAP169_VPE31_0	32	0	rw	
GIC_SH_MAP170_VPE31_0	32	0	rw	
GIC_SH_MAP171_VPE31_0	32	0	rw	
GIC_SH_MAP172_VPE31_0	32	0	rw	
GIC_SH_MAP173_VPE31_0	32	0	rw	
GIC_SH_MAP174_VPE31_0	32	0	rw	
GIC_SH_MAP175_VPE31_0	32	0	rw	
GIC_SH_MAP176_VPE31_0	32	0	rw	
GIC_SH_MAP177_VPE31_0	32	0	rw	
GIC_SH_MAP178_VPE31_0	32	0	rw	
GIC_SH_MAP179_VPE31_0	32	0	rw	
GIC_SH_MAP180_VPE31_0	32	0	rw	
GIC_SH_MAP181_VPE31_0	32	0	rw	+
GIC_SH_MAP182_VPE31_0	32	0	rw	
010_011_WIM1 102_V1 E01_0	1 02	J	T VV	

GIC_SH_MAP183_VPE31_0	32	0	rw	
GIC_SH_MAP184_VPE31_0	32	0	rw	
GIC_SH_MAP185_VPE31_0	32	0	rw	
GIC_SH_MAP186_VPE31_0	32	0	rw	
GIC_SH_MAP187_VPE31_0	32	0	rw	
GIC_SH_MAP188_VPE31_0	32	0	rw	
GIC_SH_MAP189_VPE31_0	32	0	rw	
GIC_SH_MAP190_VPE31_0	32	0	rw	
GIC_SH_MAP191_VPE31_0	32	0	rw	
GIC_SH_MAP192_VPE31_0	32	0	rw	
GIC_SH_MAP193_VPE31_0	32	0	rw	
GIC_SH_MAP194_VPE31_0	32	0	rw	
GIC_SH_MAP195_VPE31_0	32	0	rw	
GIC_SH_MAP196_VPE31_0	32	0	rw	
GIC_SH_MAP197_VPE31_0	32	0	rw	
GIC_SH_MAP198_VPE31_0	32	0	-	
GIC SH MAP199 VPE31 0	32	0	rw	
0:0000000000000000000000000000000000000	32	_	rw	
GIC_SH_MAP200_VPE31_0		0	rw	
GIC_SH_MAP201_VPE31_0	32	0	rw	
GIC_SH_MAP202_VPE31_0	32	0	rw	
GIC_SH_MAP203_VPE31_0	32	0	rw	
GIC_SH_MAP204_VPE31_0	32	0	rw	
GIC_SH_MAP205_VPE31_0	32	0	rw	
GIC_SH_MAP206_VPE31_0	32	0	rw	
GIC_SH_MAP207_VPE31_0	32	0	rw	
GIC_SH_MAP208_VPE31_0	32	0	rw	
GIC_SH_MAP209_VPE31_0	32	0	rw	
GIC_SH_MAP210_VPE31_0	32	0	rw	
GIC_SH_MAP211_VPE31_0	32	0	rw	
GIC_SH_MAP212_VPE31_0	32	0	rw	
GIC_SH_MAP213_VPE31_0	32	0	rw	
GIC_SH_MAP214_VPE31_0	32	0	rw	
GIC_SH_MAP215_VPE31_0	32	0	rw	
GIC_SH_MAP216_VPE31_0	32	0	rw	
GIC SH MAP217 VPE31 0	32	0	rw	
GIC_SH_MAP218_VPE31_0	32	0	rw	
GIC_SH_MAP219_VPE31_0	32	0	rw	
GIC_SH_MAP220_VPE31_0	32	0	_	
GIC_SH_MAP221_VPE31_0	32	0	rw	
		ŭ.	rw	
GIC_SH_MAP222_VPE31_0	32	0	rw	
GIC_SH_MAP223_VPE31_0	32	0	rw	
GIC_SH_MAP224_VPE31_0	32	0	rw	
GIC_SH_MAP225_VPE31_0	32	0	rw	
GIC_SH_MAP226_VPE31_0	32	0	rw	
GIC_SH_MAP227_VPE31_0	32	0	rw	
GIC_SH_MAP228_VPE31_0	32	0	rw	
GIC_SH_MAP229_VPE31_0	32	0	rw	
GIC_SH_MAP230_VPE31_0	32	0	rw	
GIC_SH_MAP231_VPE31_0	32	0	rw	
GIC_SH_MAP232_VPE31_0	32	0	rw	
GIC_SH_MAP233_VPE31_0	32	0	rw	
GIC_SH_MAP234_VPE31_0	32	0	rw	
GIC_SH_MAP235_VPE31_0	32	0	rw	
GIC_SH_MAP236_VPE31_0	32	0	rw	
GIC_SH_MAP237_VPE31_0	32	0	rw	
GIC_SH_MAP238_VPE31_0	32	0	rw	
010_011_WIM1 200_V1 E01_0	1 02	J	T AA	

		1	_	
GIC_SH_MAP239_VPE31_0	32	0	rw	
GIC_SH_MAP240_VPE31_0	32	0	rw	
GIC_SH_MAP241_VPE31_0	32	0	rw	
GIC_SH_MAP242_VPE31_0	32	0	rw	
GIC_SH_MAP243_VPE31_0	32	0	rw	
GIC_SH_MAP244_VPE31_0	32	0	rw	
GIC_SH_MAP245_VPE31_0	32	0	rw	
GIC_SH_MAP246_VPE31_0	32	0	rw	
GIC_SH_MAP247_VPE31_0	32	0	rw	
GIC_SH_MAP248_VPE31_0	32	0	rw	
GIC_SH_MAP249_VPE31_0	32	0	rw	
GIC_SH_MAP250_VPE31_0	32	0	rw	
GIC_SH_MAP251_VPE31_0	32	0	rw	
GIC_SH_MAP252_VPE31_0	32	0	rw	
GIC_SH_MAP253_VPE31_0	32	0		
GIC_SH_MAP254_VPE31_0	32	0	rw	
GIC_SH_MAP254_VPE31_0		-	rw	
	32	0	rw	
GIC_VB_DINT_SEND	32	0	-W	
GIC_VPE_CTL_L	32	a	rw	
GIC_VPE_PEND_L	32	0	r-	
GIC_VPE_MASK_L	32	7f	r-	
GIC_VPE_RMASK_L	32	0	-w	
GIC_VPE_SMASK_L	32	0	-w	
GIC_VPE_WD_MAP_L	32	40000000	rw	
GIC_VPE_COMPARE_MAP_L	32	0	rw	
GIC_VPE_TIMER_MAP_L	32	80000005	rw	
GIC_VPE_FDC_MAP_L	32	8000003e	rw	
GIC_VPE_PERFCTR_MAP_L	32	80000005	rw	
GIC_VPE_SWInt0_MAP_L	32	80000000	rw	
GIC_VPE_SWInt1_MAP_L	32	80000000	rw	
GIC_VPE_OTHER_ADDRESS_L	32	0	rw	
GIC_VPE_IDENT_L	32	0	r-	
GIC_VPE_WD_CONFIG_L	32	0	rw	
GIC_VPE_WD_COUNT_L	32	0	r-	
GIC_VPE_WD_INITIAL_L	32	0	rw	
GIC_VPE_CompareLo_L	32	fffffff	rw	
GIC_VPE_CompareHi_L	32	fffffff		
GIC_VPE_EICSS00_L	32	0	rw	
GIC_VPE_EICSS00_L GIC_VPE_EICSS01_L	_	_	rw	
	32	0	rw	
GIC_VPE_EICSS02_L	32	0	rw	
GIC_VPE_EICSS03_L	32	0	rw	
GIC_VPE_EICSS04_L	32	0	rw	
GIC_VPE_EICSS05_L	32	0	rw	
GIC_VPE_EICSS06_L	32	0	rw	
GIC_VPE_EICSS07_L	32	0	rw	
GIC_VPE_EICSS08_L	32	0	rw	
GIC_VPE_EICSS09_L	32	0	rw	
GIC_VPE_EICSS10_L	32	0	rw	
GIC_VPE_EICSS11_L	32	0	rw	
GIC_VPE_EICSS12_L	32	0	rw	
GIC_VPE_EICSS13_L	32	0	rw	
GIC_VPE_EICSS14_L	32	0	rw	
GIC-VPE-EICSS15-L	32	0	rw	
GIC-VPE-EICSS16-L	32	0	rw	
GIC_VPE_EICSS10_L	32	0	rw	
GIC_VPE_EICSS17_L	32	0	rw	
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GIC_VPE_EICSS19_L	32	0	rw	
GIC_VPE_EICSS20_L	32	0	rw	
GIC_VPE_EICSS21_L	32	0	rw	
GIC_VPE_EICSS22_L	32	0	rw	
GIC_VPE_EICSS23_L	32	0	rw	
GIC_VPE_EICSS24_L	32	0	rw	
GIC_VPE_EICSS25_L	32	0	rw	
GIC_VPE_EICSS26_L	32	0	rw	
GIC_VPE_EICSS27_L	32	0	rw	
GIC_VPE_EICSS28_L	32	0	rw	
GIC_VPE_EICSS29_L	32	0	rw	
GIC_VPE_EICSS30_L	32	0	rw	
GIC_VPE_EICSS31_L	32	0	rw	
GIC_VPE_EICSS32_L	32	0	rw	
GIC-VPE-EICSS33-L	32	0	rw	
GIC-VPE-EICSS34-L	32	0	rw	
GIC_VPE_EICSS35_L	32	0	+	
GIC_VPE_EICSS36_L	32	0	rw	
GIC_VPE_EICSS30_L	32		rw	
		0	rw	
GIC_VPE_EICSS38_L	32	0	rw	
GIC_VPE_EICSS39_L	32	0	rw	
GIC_VPE_EICSS40_L	32	0	rw	
GIC_VPE_EICSS41_L	32	0	rw	
GIC_VPE_EICSS42_L	32	0	rw	
GIC_VPE_EICSS43_L	32	0	rw	
GIC_VPE_EICSS44_L	32	0	rw	
GIC_VPE_EICSS45_L	32	0	rw	
GIC_VPE_EICSS46_L	32	0	rw	
GIC_VPE_EICSS47_L	32	0	rw	
GIC_VPE_EICSS48_L	32	0	rw	
GIC_VPE_EICSS49_L	32	0	rw	
GIC_VPE_EICSS50_L	32	0	rw	
GIC_VPE_EICSS51_L	32	0	rw	
GIC_VPE_EICSS52_L	32	0	rw	
GIC_VPE_EICSS53_L	32	0	rw	
GIC_VPE_EICSS54_L	32	0	rw	
GIC_VPE_EICSS55_L	32	0	rw	
GIC_VPE_EICSS56_L	32	0	rw	
GIC_VPE_EICSS57_L	32	0	rw	
GIC_VPE_EICSS58_L	32	0	rw	
GIC_VPE_EICSS59_L	32	0	rw	
GIC_VPE_EICSS60_L	32	0	rw	
GIC-VPE-EICSS61-L	32	0	rw	
GIC-VPE-EICSS62-L	32	0	+	
GIC_VPE_EICSS02_L GIC_VPE_EICSS63_L	32	0	rw	
GIC_VPE_EICSS63_L GIC_Vx_DINT_PART_L	32	1	rw	
GIC_VX_DINT_PART_L GIC_Cx_BRK_GROUP_L	32	0	rw	
GIC_CX_BRK_GROUP_L GIC_VPE_CTL_O			rw	
	32	a	rw	
GIC_VPE_PEND_O	32	0	r-	
GIC_VPE_MASK_O	32	7f	r-	
GIC_VPE_RMASK_O	32	0	-w	
GIC_VPE_SMASK_O	32	0	-w	
GIC_VPE_WD_MAP_O	32	40000000	rw	
GIC_VPE_COMPARE_MAP_O	32	0	rw	
GIC_VPE_TIMER_MAP_O	32	80000005	rw	
GIC_VPE_FDC_MAP_O	32	8000003e	rw	
	•	•	•	•

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GIC_VPE_PERFCTR_MAP_O	32	80000005	rw	
GIC_VPE_SWInt0_MAP_O	32	80000000	rw	
GIC_VPE_SWInt1_MAP_O	32	80000000	rw	
GIC_VPE_OTHER_ADDRESS_O	32	0	rw	
GIC_VPE_IDENT_O	32	0	r-	
GIC_VPE_WD_CONFIG_O	32	0	rw	
GIC_VPE_WD_COUNT_O	32	0	r-	
GIC_VPE_WD_INITIAL_O	32	0	rw	
GIC_VPE_CompareLo_O	32	fffffff	rw	
GIC_VPE_CompareHi_O	32	fffffff	rw	
GIC_VPE_EICSS00_O	32	0	rw	
GIC_VPE_EICSS01_O	32	0	rw	
GIC_VPE_EICSS02_O	32	0	rw	
GIC_VPE_EICSS03_O	32	0	rw	
GIC_VPE_EICSS04_O	32	0	rw	
GIC_VPE_EICSS05_O	32	0	rw	
GIC_VPE_EICSS06_O	32	0	rw	
GIC_VPE_EICSS07_O	32	0	rw	
GIC-VPE-EICSS08-O	32	0		
GIC_VPE_EICSS08_O	32	0	rw	
GIC_VPE_EICSS09_O	32	0	rw	
			rw	
GIC_VPE_EICSS11_O	32	0	rw	
GIC_VPE_EICSS12_O	32	0	rw	
GIC_VPE_EICSS13_O	32	0	rw	
GIC_VPE_EICSS14_O	32	0	rw	
GIC_VPE_EICSS15_O	32	0	rw	
GIC_VPE_EICSS16_O	32	0	rw	
GIC_VPE_EICSS17_O	32	0	rw	
GIC_VPE_EICSS18_O	32	0	rw	
GIC_VPE_EICSS19_O	32	0	rw	
GIC_VPE_EICSS20_O	32	0	rw	
GIC_VPE_EICSS21_O	32	0	rw	
GIC_VPE_EICSS22_O	32	0	rw	
GIC_VPE_EICSS23_O	32	0	rw	
GIC_VPE_EICSS24_O	32	0	rw	
GIC_VPE_EICSS25_O	32	0	rw	
GIC_VPE_EICSS26_O	32	0	rw	
GIC_VPE_EICSS27_O	32	0	rw	
GIC_VPE_EICSS28_O	32	0	rw	
GIC_VPE_EICSS29_O	32	0	rw	
GIC-VPE-EICSS30-O	32	0	+	
GIC_VPE_EICSS30_O	32	0	rw	
GIC_VPE_EICSS31_O		0	rw	
GIC_VPE_EICSS32_O GIC_VPE_EICSS33_O	32	-	rw	
	32	0	rw	
GIC_VPE_EICSS34_O	32	0	rw	
GIC_VPE_EICSS35_O	32	0	rw	
GIC_VPE_EICSS36_O	32	0	rw	
GIC_VPE_EICSS37_O	32	0	rw	
GIC_VPE_EICSS38_O	32	0	rw	
GIC_VPE_EICSS39_O	32	0	rw	
GIC_VPE_EICSS40_O	32	0	rw	
GIC_VPE_EICSS41_O	32	0	rw	
GIC_VPE_EICSS42_O	32	0	rw	
GIC_VPE_EICSS43_O	32	0	rw	
GIC_VPE_EICSS44_O	32	0	rw	
GIC_VPE_EICSS45_O	32	0	rw	
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GIC_VPE_EICSS46_O	32	0	rw
GIC_VPE_EICSS47_O	32	0	rw
GIC_VPE_EICSS48_O	32	0	rw
GIC_VPE_EICSS49_O	32	0	rw
GIC_VPE_EICSS50_O	32	0	rw
GIC_VPE_EICSS51_O	32	0	rw
GIC_VPE_EICSS52_O	32	0	rw
GIC_VPE_EICSS53_O	32	0	rw
GIC_VPE_EICSS54_O	32	0	rw
GIC_VPE_EICSS55_O	32	0	rw
GIC_VPE_EICSS56_O	32	0	rw
GIC_VPE_EICSS57_O	32	0	rw
GIC_VPE_EICSS58_O	32	0	rw
GIC_VPE_EICSS59_O	32	0	rw
GIC_VPE_EICSS60_O	32	0	rw
GIC_VPE_EICSS61_O	32	0	rw
GIC_VPE_EICSS62_O	32	0	rw
GIC_VPE_EICSS63_O	32	0	rw
GIC_Vx_DINT_PART_O	32	1	rw
GIC_Cx_BRK_GROUP_O	32	0	rw
GIC_CounterLoUser	32	0	r-
GIC_CounterHiUser	32	0	r-

Table 13.8: Registers at level 2, type:CPU group:CMP_GIC

## 13.2.9 Integration_support

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

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

Table 13.9: Registers at level 2, type:CPU group:Integration_support