

OVP Guide to Using Processor Models

Model specific information for MIPS_1074Kc

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Model Release Status

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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/MIPSuser.

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

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

1.6 Description

MIPS32 Configurable Processor Model

1.7 Licensing

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

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only MIPS32 Instruction set implemented

MMU Type: Standard TLB

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

Vectored interrupts implemented

 ${
m MIPS16e}$ 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	(described in this document)
1074Kf	
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?		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	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
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 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
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 (Deache line size)
config1DS	Uns32	Override Config1.DS (Deache sets per way)
config1EP	Boolean	Override Config1.EP (EJTag present)
COMISILI	Doolean	Override Connertal (Loras present)

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

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-
G	11 00	ister
mpuSegment7	Uns32	Attributes for segment 7 in MPU2 SegmentControl_1 reg-
G 10	II 20	Attributes for segment 8 in MPU2 SegmentControl_2 reg-
mpuSegment8	Uns32	Attributes for segment 8 in MPO2 SegmentControl_2 register
mpuSegment9	Uns32	Attributes for segment 9 in MPU2 SegmentControl_2 reg-
mpusegments	Ulis52	ister
mpuSegment10	Uns32	Attributes for segment 10 in MPU2 SegmentControl_2 reg-
mpusegmentio	011852	ister
mpuSegment11	Uns32	Attributes for segment 11 in MPU2 SegmentControl_2 reg-
mpusegment11	011852	ister
mpuSegment12	Uns32	Attributes for segment 12 in MPU2 SegmentControl_3 reg-
mpusegment12	0.11502	ister
mpuSegment13	Uns32	Attributes for segment 13 in MPU2 SegmentControl_3 reg-
	0 0	ister
mpuSegment14	Uns32	Attributes for segment 14 in MPU2 SegmentControl_3 reg-
		ister
mpuSegment15	Uns32	Attributes for segment 15 in MPU2 SegmentControl_3 reg-
		ister
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 reg-
		ister 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 cacheabil-
		ity)
configKU	Uns32	Override power on value of Config.KU (set Useg cacheabil-
6 1700	TT 00	ity)
configK23	Uns32	Override power on value of Config.K23 (set Kseg23
C MDII	D 1	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) Override Config1.DA (Deache associativity)
config1DA	Uns32	Override Comigr.DA (Deache associativity)

config1DL	Uns32	Override Config1.DL (Deache line size)	
config1DS	Uns32	Override Config1.DS (Deache 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 Config.1.I. (Icache line size) Override Config.1.I. (Icache sets per way)	
		Override Config1.MMUSizeM1 (number of MMU entries-	
config1MMUSizeM1	Uns32	- '	
C 4HID	D 1	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-	
externamiterrupt	Doolean	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-	
come min come	0 11502	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	
	Boolean		
config6FTLBEn		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)	
2120011100	011502	2. STITES STEED (HUIIDOL OF SHEEDW TOSISHOL SCIS)	

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 (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 8.2: Parameters that can be set in: CPU

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

Int Mod TLBL TLBS	0 1 2 3 4
TLBL TLBS	2 3 4
TLBS	3 4
	4
V TIEL	
AdEL	
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

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 10.2: 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 8 register groups:

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

Table 11.1: Register groups

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his level in the model hierarchy has no children.		

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

12.2.3 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

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	Uns32	specify model debug flags

Table 12.9: mipsDebugFlags command arguments

12.2.11 mipsReadRegister

Read a processor register using <resource><offset>

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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	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

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	
$^{\mathrm{sp}}$	32	0	rw	stack pointer
s8	32	0	rw	frame pointer
ra	32	0	rw	
рс	32	bfc00000	rw	program counter

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

13.2.2 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 13.2: Registers at level 2, type:CPU group:DSP

13.2.3 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	

		I		
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		
a1[2] $a2[2]$	32	0	rw	
			rw	
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	rw	
s1[2]	32	0	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
s8[2] ra[2]	32	0	rw	L
zero[3]	32	0	r-	constant zero
at[3]	32	0	rw	COHOUMIN ZOTO
v0[3]	32	0	rw	
v1[3]	32	0		
a0[3]	32	0	rw	
	32	0	rw	
a1[3]			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	rw	
s0[3]	32	0	rw	

4.[0]	0.0	0		
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	
sp[3]	32	0	rw	stack pointer
s8[3]	32	0	rw	frame pointer
ra[3]	32	0	rw	

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

13.2.4 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	rw	CP0 register 11/0
status	32	400004	rw	CP0 register 12/0
intctl	32	e0000000	rw	CP0 register 12/1
srsctl	32	c000000	rw	CP0 register 12/2
srsmap	32	0	rw	CP0 register 12/3
epc	32	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	9e231186	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

1	0.0		I	GD0 : 1 04/0
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 13.4: Registers at level 2, type:CPU group:COP0

13.2.5 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 13.5: Registers at level 2, type:CPU group:CMP_GCR

13.2.6 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 13.6: Registers at level 2, type:CPU group:CMP_CPC

13.2.7 CMP_GIC

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

Name	Bits	Initial-Hex	RW	Description
GIC_SH_CONFIG	32	8040003	rw	F
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.RMASK31.0 32 0 -w GIC.SH.SMASK31.0 32 0 -w GIC.SH.SMASK323 32 0 -w GIC.SH.SMASK95.64 32 0 -w GIC.SH.SMASK127.96 32 0 -w GIC.SH.SMASK191.28 32 0 -w GIC.SH.SMASK191.160 32 0 -w GIC.SH.SMASK191.160 32 0 -w GIC.SH.SMASK191.160 32 0 -w GIC.SH.SMASK23.192 32 0 -w GIC.SH.SMASK23.192 32 0 -w GIC.SH.SMASK255.224 32 0 -w GIC.SH.MASK255.224 32 0 -r GIC.SH.MASK255.24 32 0 -r GIC.SH.MASK255.24 32 0 -r GIC.SH.MASK25.04 32 0 -r GIC.SH.MASK127.96 32 0 -r GIC.SH.MASK127.96 32 0 -r GIC.SH.MASK127.96 32 0 -r GIC.SH.MASK191.160 32 0 -r GIC.SH.MASK191.160 32 0 -r GIC.SH.MASK23.192 32 0 -r GIC.SH.PEND31.0 32 0 -r GIC.SH.PEND31.0 32 0 -r GIC.SH.PEND31.0 32 0 -r GIC.SH.PEND5.64 32 0 -r GIC.SH.PEND11.160 32 0 -r GIC.SH.PEND12.59 32 0 -r GIC.SH.PEND19.180 32 0 -r GIC.SH.PEND19.19 32 0 -r GIC.SH.PEND19.19 32 0 -r GIC.SH.PEND19.110 32 0 -r GIC.SH.PEND23.192 32 0 -r GIC.SH.MAP003.PIN 32 8000000 rw GIC.SH.MAP003.PIN 32 8000000 rw GIC.SH.MAP005.PIN 32 8000000 rw GIC.SH.MAP005.PIN 32 80000000 rw	
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GIC.SH.SMASK95.64 32 0w GIC.SH.SMASK127.96 32 0w GIC.SH.SMASK159.128 32 0w GIC.SH.SMASK191.160 32 0w GIC.SH.SMASK23.192 32 0w GIC.SH.SMASK23.192 32 0w GIC.SH.SMASK31.0 32 0 -r GIC.SH.MASK31.0 32 0 r- GIC.SH.MASK31.0 32 0 r- GIC.SH.MASK31.0 32 0 r- GIC.SH.MASK95.64 32 0 r- GIC.SH.MASK127.96 32 0 r- GIC.SH.MASK191.188 32 0 r- GIC.SH.MASK191.160 32 0 r- GIC.SH.MASK191.160 32 0 r- GIC.SH.MASK23.192 32 0 r- GIC.SH.MASK23.192 32 0 r- GIC.SH.MASK191.160 32 0 r- GIC.SH.MASK191.160 32 0 r- GIC.SH.MASK191.160 32 0 r- GIC.SH.PEND31.0 32 0 r- GIC.SH.MAP002.PIN 32 80000000 rw GIC.SH.MAP003.PIN 32 80000000 rw GIC.SH.MAP004.PIN 32 80000000 rw GIC.SH.MAP004.PIN 32 80000000 rw GIC.SH.MAP006.PIN 32 80000000 rw	
GIC.SH.SMASK127.96 GIC.SH.SMASK159.128 GIC.SH.SMASK191.160 GIC.SH.SMASK191.160 GIC.SH.SMASK23.192 GIC.SH.SMASK223.192 GIC.SH.SMASK223.192 GIC.SH.SMASK255.224 GIC.SH.MASK63.32 GIC.SH.MASK63.32 GIC.SH.MASK63.32 GIC.SH.MASK95.64 GIC.SH.MASK17.96 GIC.SH.MASK159.128 GIC.SH.MASK159.128 GIC.SH.MASK191.160 GIC.SH.MASK23.192 GIC.SH.MASK23.192 GIC.SH.MASK255.224 GIC.SH.MASK255.224 GIC.SH.MASK255.224 GIC.SH.MASK255.224 GIC.SH.MASK255.224 GIC.SH.PEND31.0 GIC.SH.PEND31.0 GIC.SH.PEND95.64 GIC.SH.PEND95.64 GIC.SH.PEND159.128 GIC.SH.PEND159.128 GIC.SH.PEND191.160 GIC.SH.PEND255.224 GIC.SH.PEND255.224 GIC.SH.MAP000.PIN GIC.SH.MAP000.PIN GIC.SH.MAP000.PIN GIC.SH.MAP000.PIN GIC.SH.MAP003.PIN GIC.SH.MAP003.PIN GIC.SH.MAP003.PIN GIC.SH.MAP005.PIN GIC.SH.MAP006.PIN GIC.SH.MAP007.PIN GIC.SH.MAP007.PIN	
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GIC_SH_MASK95_64 GIC_SH_MASK127_96 GIC_SH_MASK159_128 32	
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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_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_PEND159_128 32 0 r- GIC_SH_PEND191_160 32 0 r- GIC_SH_PEND23_192 32 0 r- GIC_SH_PEND223_192 32 0 r- GIC_SH_MAP000_PIN 32 80000000 rw GIC_SH_MAP001_PIN 32 80000000 rw GIC_SH_MAP003_PIN 32 80000000 rw GIC_SH_MAP005_PIN 32 80000000 <	
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_PEND191_160 32 0 r- GIC_SH_PEND223_192 32 0 r- GIC_SH_PEND255_224 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_MAP003_PIN 32 80000000 rw GIC_SH_MAP003_PIN 32 80000000 rw GIC_SH_MAP004_PIN 32 80000000 rw GIC_SH_MAP004_PIN 32 80000000 rw GIC_SH_MAP005_PIN 32 80000000 rw GIC_SH_MAP005_PIN 32 80000000 rw GIC_SH_MAP005_PIN 32 80000000 rw GIC_SH_MAP005_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw	
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_PEND23_192 32 0 r- GIC_SH_PEND25_224 32 0 r- GIC_SH_MAP000_PIN 32 80000000 rw GIC_SH_MAP001_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_MAP006_PIN 32 80000000 rw	-
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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_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_PEND95_64 GIC_SH_PEND127_96 GIC_SH_PEND159_128 GIC_SH_PEND159_128 GIC_SH_PEND191_160 GIC_SH_PEND23_192 GIC_SH_PEND23_192 GIC_SH_PEND255_224 GIC_SH_MAP000_PIN GIC_SH_MAP001_PIN GIC_SH_MAP001_PIN GIC_SH_MAP003_PIN GIC_SH_MAP004_PIN GIC_SH_MAP005_PIN GIC_SH_MAP005_PIN GIC_SH_MAP006_PIN GIC_SH_MAP006_PIN GIC_SH_MAP007_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP007_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw	
GIC_SH_PEND95_64 GIC_SH_PEND127_96 GIC_SH_PEND159_128 GIC_SH_PEND159_128 GIC_SH_PEND191_160 GIC_SH_PEND23_192 GIC_SH_PEND23_192 GIC_SH_PEND255_224 GIC_SH_MAP000_PIN GIC_SH_MAP001_PIN GIC_SH_MAP001_PIN GIC_SH_MAP003_PIN GIC_SH_MAP004_PIN GIC_SH_MAP005_PIN GIC_SH_MAP005_PIN GIC_SH_MAP006_PIN GIC_SH_MAP006_PIN GIC_SH_MAP007_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP007_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw	
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_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_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_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_PEND23_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_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_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_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_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_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_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_MAP005_PIN 32 80000000 rw GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP007_PIN 32 80000000 rw	
GIC_SH_MAP006_PIN 32 80000000 rw GIC_SH_MAP007_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	
CIC CIT MA POAC DIV	
GYG GYY M L DOM DYY	
CIC CIL MA DOLO DIN	
GYG GYY Y L POAG DYY	
CIC CIT MA POLA DIV	
GYG GYY A L DOLY DYY	
CYC CYY A L Done DYY	
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	

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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	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	
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	rw	
GIC_SH_MAP071_PIN	32	80000000	rw	
GIC_SH_MAP072_PIN	32	80000000	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	_	
GIC_SH_MAP078_PIN	32	80000000	rw	
GIC_SH_MAP079_PIN	32	8000000	rw	
GIC_SH_MAP080_PIN	32	80000000	+	
GIC_SH_MAP080_PIN GIC_SH_MAP081_PIN	32	80000000	rw	
GIC_SH_MAP081_PIN GIC_SH_MAP082_PIN	32		rw	
		80000000	rw	
GIC_SH_MAP083_PIN	32	80000000	rw	
GIC_SH_MAP084_PIN		80000000	rw	
GIC_SH_MAP085_PIN GIC_SH_MAP086_PIN	32	80000000 80000000	rw	
GIO_SII_MAFU0U_FIN	_ ა∠	00000000	rw	

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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	
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	+	
GIC_SH_MAP111_PIN	32	80000000	rw	
GIC_SH_MAP112_PIN	32	80000000	rw	
			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	rw	
GIC_SH_MAP127_PIN	32	80000000	rw	
GIC_SH_MAP128_PIN	32	80000000	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	
010_011_11111 11E_1 11V	1 32	55555555	1 44	

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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	
GIC_SH_MAP159_PIN	32	80000000	rw	
GIC_SH_MAP160_PIN	32	80000000	rw	
GIC_SH_MAP161_PIN	32	80000000		
GIC_SH_MAP161_FIN	32	8000000	rw	
		8000000	rw	
GIC_SH_MAP163_PIN	32		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	rw	
GIC_SH_MAP181_PIN	32	80000000	rw	
GIC_SH_MAP182_PIN	32	80000000	rw	
GIC_SH_MAP183_PIN	32	80000000	rw	
GIC_SH_MAP184_PIN	32	80000000		
GIC_SH_MAP185_PIN	32	80000000	rw	
GIC_SH_MAP186_PIN	32	8000000	rw	
	32		rw	
GIC_SH_MAP187_PIN		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	
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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	rw	
GIC_SH_MAP207_PIN	32	80000000	rw	
GIC_SH_MAP208_PIN	32	80000000	rw	
GIC_SH_MAP209_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	+	
GIC SH MAP215 PIN	32	80000000	rw	
0.10 20 11111 210 21 11			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	80000000	rw	
GIC_SH_MAP231_PIN	32	80000000	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	+	
GIC_SH_MAP237_PIN	32	80000000	rw	
			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	rw	
GIC_SH_MAP251_PIN	32	80000000	rw	
GIC_SH_MAP252_PIN	32	80000000	rw	
GIC_SH_MAP253_PIN	32	80000000	rw	
GIC_SH_MAP254_PIN	32	80000000	rw	
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CIC CII MA DORE DIN	00	00000000	1	1
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	
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	+	
GIC_SH_MAP030_VPE31_0	32	0	rw	
GIC_SH_MAP031_VPE31_0	32	0	rw	
	-	-	rw	
GIC_SH_MAP032_VPE31_0	32	0	rw	
GIC_SH_MAP033_VPE31_0		0	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	
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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	rw	
GIC_SH_MAP059_VPE31_0	32	0	rw	
GIC_SH_MAP060_VPE31_0	32	0	rw	
GIC_SH_MAP061_VPE31_0	32	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		
GIC_SH_MAP081_VPE31_0	32	0	rw	
GIC_SH_MAP082_VPE31_0	32	0	rw	
		-	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	rw	
GIC_SH_MAP091_VPE31_0	32	0	rw	
GIC_SH_MAP092_VPE31_0	32	0	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		
GIC_SH_MAP098_VPE31_0	32	0	rw	
GIC_SH_MAP098_VPE31_0	32	0	rw	
GIC_SH_MAP100_VPE31_0	32	_	rw	
		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	
		1 -		1

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	rw	
GIC_SH_MAP121_VPE31_0	32	0	rw	
GIC_SH_MAP122_VPE31_0	32	0	rw	
GIC_SH_MAP123_VPE31_0	32	0	rw	
GIC_SH_MAP124_VPE31_0	32	0	rw	
GIC_SH_MAP125_VPE31_0	32	0	rw	
GIC_SH_MAP126_VPE31_0	32	0		
GIC SH MAP127 VPE31 0	32	0	rw	
0:-0=:0=:0=:0	32	_	rw	
GIC_SH_MAP128_VPE31_0		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	rw	
GIC_SH_MAP143_VPE31_0	32	0	rw	
GIC_SH_MAP144_VPE31_0	32	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		
GIC_SH_MAP148_VPE31_0	32	0	rw	
GIC_SH_MAP148_VPE31_0	32	0	rw	
GIC_SH_MAP149_VPE31_0 GIC_SH_MAP150_VPE31_0		ű.	rw	
	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	rw	
GIC_SH_MAP165_VPE31_0	32	0	rw	
GIC_SH_MAP166_VPE31_0	32	0	rw	
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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		
	32	0	rw	
GIC_SH_MAP182_VPE31_0	32	0	rw	
GIC_SH_MAP183_VPE31_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	rw	
GIC_SH_MAP199_VPE31_0	32	0	rw	
GIC_SH_MAP200_VPE31_0	32	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		
GIC_SH_MAP206_VPE31_0	32	0	rw	
GIC_SH_MAP206_VPE31_0 GIC_SH_MAP207_VPE31_0	32	0	rw	
			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	rw	
GIC_SH_MAP221_VPE31_0	32	0	rw	
GIC_SH_MAP222_VPE31_0	32	0	rw	
	1 3-		1,	1

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	
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	rw	
GIC_SH_MAP254_VPE31_0	32	0	rw	
GIC_SH_MAP255_VPE31_0	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	+	
GIC_VPE_WD_MAP_L GIC_VPE_COMPARE_MAP_L	32	0	rw	
GIC_VPE_COMPARE_MAP_L GIC_VPE_TIMER_MAP_L	32	80000005	rw	
GIC_VPE_FINER_MAP_L	32	8000003 8000003e		
GIC_VPE_FDC_MAP_L GIC_VPE_PERFCTR_MAP_L	32	8000005e	rw	
GIC_VPE_PERFCTR_MAP_L GIC_VPE_SWInt0_MAP_L	32	80000000	rw	
GIC_VPE_SWInt0_MAP_L GIC_VPE_SWInt1_MAP_L	32	80000000	rw	
GIC_VPE_SWINTI_MAP_L GIC_VPE_OTHER_ADDRESS_L	32	0	rw	
GIC_VPE_OTHER_ADDRESS_L GIC_VPE_IDENT_L	32	ŭ.	rw	
GIC_VPE_IDENT_L GIC_VPE_WD_CONFIG_L	32	0	r-	
		-	rw	
GIC_VPE_WD_COUNT_L	32	0	r-	
GIC_VPE_WD_INITIAL_L	32	_	rw	
GIC_VPE_CompareLo_L	32	fffffff	rw	
GIC_VPE_CompareHi_L	32	ffffff	rw	
GIC_VPE_EICSS00_L	32	0	rw	
GIC_VPE_EICSS01_L	32	0	rw	
GIC_VPE_EICSS02_L	32	0	rw	

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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_EICSS17_L	32	0	rw	
GIC_VPE_EICSS18_L	32	0	rw	
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-EICSS24-E	32	0	rw	
GIC-VPE-EICSS25-L	32	0		
GIC_VPE_EICSS20_L	32	0	rw	
GIC_VPE_EICSS21_L	32	0	rw	
GIC_VPE_EICSS28_L GIC_VPE_EICSS29_L	32		rw	
	_	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	rw	
GIC_VPE_EICSS36_L	32	0	rw	
GIC_VPE_EICSS37_L	32	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_EICSS50_L	32	0	rw	
GIC_VPE_EICSS57_L	32	0	rw	
GIOTAL D'ELONDOOT	1 92	J 0	T AA	

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	rw	
GIC_VPE_EICSS63_L	32	0	rw	
GIC_Vx_DINT_PART_L	32	1	rw	
GIC_Cx_BRK_GROUP_L	32	0	rw	
GIC_VPE_CTL_O	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	
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	rw	
GIC_VPE_EICSS09_O	32	0		
GIC_VPE_EICSS09_O	32	0	rw	
GIC_VPE_EICSS10_O	32	0	rw	
GIC_VPE_EICSS11_O	32	0	rw	
GIC_VPE_EICSS12_O	32	0	rw	
GIC-VPE-EICSS13-0	32	0	rw	
GIC_VPE_EICSS14_O	32	0	rw	
			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	I and the second

GIC_VPE_EICSS30_O	32	0	rw	
GIC_VPE_EICSS31_O	32	0	rw	
GIC_VPE_EICSS32_O	32	0	rw	
GIC_VPE_EICSS33_O	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	
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 13.7: Registers at level 2, type:CPU group:CMP_GIC

13.2.8 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 13.8: Registers at level 2, type:CPU group:Integration_support