

OVP Guide to Using Processor Models

Model specific information for MIPS_5Kc

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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

MIPS64 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

Cache model not implemented on mips64 variants

If this model is not part of your installation, then it is available for download from www.OVPworld.org/MIPSuser.

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 MIPS64 Instruction set implemented

MMU Type: Standard TLB

Vectored interrupts implemented

Configuration

2.1 Location

This model's VLNV is mips.ovpworld.org/processor/mips64_r1r5/1.0.

The model source is usually at:

\$IMPERAS_HOME/ImperasLib/source/mips.ovpworld.org/processor/mips64_r1r5/1.0

The model binary is usually at:

\$IMPERAS_HOME/lib/\$IMPERAS_ARCH/ImperasLib/mips.ovpworld.org/processor/mips64_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/mips64Newlib/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
5Kf	
5Kc	(described in this document)
5KEf	
5KEc	

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	Core reset
dint	input	optional	Debug external interrupt
hwint0	input	optional	External interrupt
hwint1	input	optional	External interrupt
hwint2	input	optional	External interrupt
hwint3	input	optional	External interrupt
hwint4	input	optional	External interrupt
hwint5	input	optional	External interrupt
nmi	input	optional	Non-maskable external interrupt
vc_run	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

variant endian Endian Model endian Endian 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) MIPS_TRACE Boolean Enable MIPS-format trace output supervisorMode Boolean Override whether processor implements supervisor mode override whether processor implements supervisor mode override buse error exception behavior. When true, accesses of memory not defined by platform will cause buse error exceptions fixedMMU Boolean Override the MMU type to fixed mapping when true (sets Config.MT=3, Config.KU/K23=2 and Config.I.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 Config.I.FP to 0) removeFP Boolean Override the FP_Present configuration when true (sets Config.I.FP to 0) isISA Boolean Override the SP_Present configuration when true (sets Config.I.FP to 0) isISA Boolean Deprecated - Instead set configIMMUSizeM1 to maximum value to improve performance ITCNumEntries Doolean Deprecated - Instead set configIMMUSizeM1 to maximum value to improve performance ITCNumFIFO Uns32 Specify number of ITC cells present (MT cores only) MTFPU Uns32 Specify number of ITC cells present (MT cores only) MTFPU Uns32 Specify number of ITC cells present (MT cores only) MTFPU Uns32 Specify number of ITC cells present (MT cores only) VPEOMaxTC Uns32 Specifies the maximum TCs initially on VPEO segBits Uns32 Number of regions for memory protection unit mpuType Uns32 Type of MPU implementation mpuRegions Uns32 Number of regions for memory protection unit mpuSegment0 Uns32 Attributes for segment 0 in MPU2 SegmentControl.0 register mpuSegment1 Uns32 Attributes for segment 1 in MPU2 SegmentControl.0 register	Name	Type	Description	
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Boolean Override whether processor implements supervisor mode			AVP test termination)	
Boolean Override bus error exception behavior. When true, accesses of memory not defined by platform will cause bus error exceptions	MIPS_TRACE	Boolean	Enable MIPS-format trace output	
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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)
config1EP	Boolean	Override Config1.EP (EJTag present)
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
		1
config3IPLW config3ISA	Uns32	Override Config3.IPLW
	Uns32	Override Config3.ISA
config3ISAOnExc	Boolean	Override Config3.ISAOnExc
config3ITL	Boolean	Override Config3.ITL
config3LPA	Boolean	Override Config3.LPA
config3MCU	Boolean	Override Config3.MCU
config3MMAR	Uns32	Override Config3.MMAR
config3RXI	Boolean	Override Config3.RXI
config3SC	Boolean	Override Config3.SC
config3ULRI	Boolean	Override Config3.ULRI
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
config7DCIDX_MODE	Uns32	Override Config7.DCIDX_MODE
config7WII	Boolean	Override Config7.WII (wait IE/IXMT ignore)
fcsrABS2008	Boolean	Override FCSR.ABS2008 (ABS/NEG compliant with
ICSI ADS 2008	Doolean	IEEE 754-2008)
fcsrNAN2008	Boolean	Override FCSR.NAN2008 (QNaN/SNaN encodings match
ICSITNATIV2008	Doolean	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-
IIIIIas2008	Doolean	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 correspond-
		ing BEV address bits
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<>
	0 11502	size in bytes>) - 11)
DSPRAM_BASE	Uns64	Starting physical address of the DSPRAM region
POI IMINI-DADE	011504	bearing physical address of the Dol RAM fegion

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: CPU

Execution Modes

Mode	Code
KERNEL	0
DEBUG	1
SUPERVISOR	2
USER	3

Table 9.1: Modes implemented in: CPU

Exceptions

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

Table 10.1: 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: CPU

This level in the model hierarchy has 16 commands. This level in the model hierarchy has 4 register groups:

Group name	Registers
Core	33
DSP	9
COP0	32
Integration_support	1

Table 11.1: Register groups

This 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: CPU

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

12.1.3 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 12.3: mipsCOP0 command arguments

12.1.4 mipsCacheDisable

12.1.4.1 Argument description

Disables tag or full cache model

12.1.5 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 12.4: mipsCacheEnable command arguments

12.1.6 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 12.5: mipsCacheRatio command arguments

12.1.7 mipsCacheReport

12.1.7.1 Argument description

Report current cache statistics

12.1.8 mipsCacheReset

12.1.8.1 Argument description

reset the cache model

12.1.9 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 12.6: mipsCacheTrace command arguments

12.1.10 mipsDebugFlags

Set the processor model debug flags to <value>

Argument	Type	Description
-value	Uns32	specify model debug flags

Table 12.7: mipsDebugFlags command arguments

12.1.11 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 12.8: mipsReadRegister command arguments

12.1.12 mipsReadTLBEntry

read a TLB entry specified by the index

Argument	Type	Description
-index	Uns64	select the TLB entry

Table 12.9: mipsReadTLBEntry command arguments

12.1.13 mipsTLBDump

12.1.13.1 Argument description

Dumps the current contents of the TLB

12.1.14 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 12.10: mipsTLBGetPhys command arguments

12.1.15 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 12.11: mipsWriteRegister command arguments

12.1.16 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 12.12: mipsWriteTLBEntry command arguments

Registers

13.1 Level 1: CPU

13.1.1 Core

Registers at level:1, type:CPU group:Core

Name	Bits	Initial-Hex	RW	Description
zero	64	0	r-	constant zero
at	64	0	rw	
v0	64	0	rw	
v1	64	0	rw	
a0	64	0	rw	
a1	64	0	rw	
a2	64	0	rw	
a3	64	0	rw	
t0	64	0	rw	
t1	64	0	rw	
t2	64	0	rw	
t3	64	0	rw	
t4	64	0	rw	
t5	64	0	rw	
t6	64	0	rw	
t7	64	0	rw	
s0	64	0	rw	
s1	64	0	rw	
s2	64	0	rw	
s3	64	0	rw	
s4	64	0	rw	
s5	64	0	rw	
s6	64	0	rw	
s7	64	0	rw	
t8	64	0	rw	
t9	64	0	rw	
k0	64	0	rw	
k1	64	0	rw	
gp	64	0	rw	
sp	64	0	rw	stack pointer
s8	64	0	rw	frame pointer
ra	64	0	rw	
pc	64	fffffff bfc00000	rw	program counter

Table 13.1: Registers at level 1, type:CPU group:Core

13.1.2 DSP

Registers at level:1, type:CPU group:DSP

Name	Bits	Initial-Hex	RW	Description
lo	64	0	rw	
hi	64	0	rw	
lo1	64	0	rw	
hi1	64	0	rw	
lo2	64	0	rw	
hi2	64	0	rw	
lo3	64	0	rw	
hi3	64	0	rw	
dspctl	64	0	rw	DSP control

Table 13.2: Registers at level 1, type:CPU group:DSP

13.1.3 COP0

Registers at level:1, type:CPU group:COP0

Name	Bits	Initial-Hex	RW	Description
sr	64	400004	rw	CP0 register 12/0 (status)
bad	64	0	rw	CP0 register 8/0 (badvaaddr)
cause	64	0	rw	CP0 register 13/0 (cause)
index	64	0	rw	CP0 register 0/0
random	64	0	rw	CP0 register 1/0
entrylo0	64	0	rw	CP0 register 2/0
entrylo1	64	0	rw	CP0 register 3/0
context	64	0	rw	CP0 register 4/0
pagemask	64	0	rw	CP0 register 5/0
wired	64	0	rw	CP0 register 6/0
hwrena	64	0	rw	CP0 register 7/0
badvaddr	64	0	rw	CP0 register 8/0
count	64	0	rw	CP0 register 9/0
entryhi	64	0	rw	CP0 register 10/0
compare	64	0	rw	CP0 register 11/0
status	64	400004	rw	CP0 register 12/0
intctl	64	fc000000	rw	CP0 register 12/1
srsctl	64	0	rw	CP0 register 12/2
srsmap	64	0	rw	CP0 register 12/3
epc	64	0	rw	CP0 register 14/0
prid	64	18100	rw	CP0 register 15/0
ebase	64	fffffff	rw	CP0 register 15/1
		80000000		
config	64	b600c483	rw	CP0 register 16/0
config1	64	dee37182	rw	CP0 register 16/1
config2	64	80000000	rw	CP0 register 16/2
config3	64	20	rw	CP0 register 16/3
lladdr	64	0	rw	CP0 register 17/0
xcontext	64	0	rw	CP0 register 20/0
debug	64	2010000	rw	CP0 register 23/0

depc	64	0	rw	CP0 register 24/0
errorepc	64	0	rw	CP0 register 30/0
desave	64	0	rw	CP0 register 31/0

Table 13.3: Registers at level 1, type:CPU group:COP0

13.1.4 Integration_support

Registers at level:1, type:CPU group:Integration_support

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

Table 13.4: Registers at level 1, type:CPU group:Integration_support