

Imperas Peripheral Model Guide

Model Specific Information for renesas.ovpworld.org / intc

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Model Release Status

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1.0 Model Specific Information

This document provides usage information for an Imperas OVP peripheral behavioral model.

The document is split into sections providing specific information for this peripheral, including any ports for connecting into a platform, registers, other component parts, and configuration options and general information for peripheral modeling with Imperas OVP.

1.1 Licensing

Open Source Apache 2.0

1.2 Description

Renesas INTC Interrupt Controller

1.3 Limitations

Register View Model Only

1.4 Reference

R01UH0128ED0700, Rev. 7.00, Oct 06, 2010

1.5 Location

The intc peripheral model is located in an Imperas/OVP installation at the VLNV: renesas.ovpworld.org / peripheral / intc / 1.0.

2.0 Net Ports

This model has the following net ports:

Table 1. Net Ports

Name	Type	Must Be Connected	Description
RESET	output	F (False)	
NMI0	output	F (False)	
NMI1	output	F (False)	
NMI2	output	F (False)	
INTP	output	F (False)	
INTACK	input	F (False)	
MIRETI	input	F (False)	
IRESET	input	F (False)	
NMI_00	input	F (False)	
NMI_01	input	F (False)	
NMI_02	input	F (False)	
NMI_03	input	F (False)	
NMI_04	input	F (False)	
NMI_05	input	F (False)	
NMI_06	input	F (False)	

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NMI_07	input	F (False)	
NMI_08	input	F (False)	
NMI_09	input	F (False)	
NMI_10	input	F (False)	
NMI_11	input	F (False)	
NMI_12	input	F (False)	
NMI_13	input	F (False)	
NMI_14	input	F (False)	
NMI_15	input	F (False)	
NMI_16	input	F (False)	
NMI_17	input	F (False)	
NMI_18	input	F (False)	
NMI_19	input	F (False)	
NMI_20	input	F (False)	
NMI_21	input	F (False)	
NMI_22	input	F (False)	
NMI_23	input	F (False)	
NMI_24	input	F (False)	
NMI_25	input	F (False)	
NMI_26	input	F (False)	
NMI_27	input	F (False)	
NMI_28	input	F (False)	
NMI_29	input	F (False)	
NMI_30	input	F (False)	
NMI_31	input	F (False)	
NMI_32	input	F (False)	
NMI_33	input	F (False)	
NMI_34	input	F (False)	
NMI_35	input	F (False)	
NMI_36	input	F (False)	
NMI_37	input	F (False)	
NMI_38	input	F (False)	
NMI_39	input	F (False)	
NMI_40	input	F (False)	
NMI_41	input	F (False)	
NMI_42	input	F (False)	
NMI_43	input	F (False)	
NMI_44	input	F (False)	
NMI_45	input	F (False)	
NMI_46	input	F (False)	
NMI_47	input	F (False)	
NMI_48	input	F (False)	
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NMI_55	input	F (False)	
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NMI_60	input	F (False)	
NMI_61	input	F (False)	
NMI_62	input	F (False)	
NMI_63	input	F (False)	
INT_00	input	F (False)	
INT_01	input	F (False)	
INT_02	input	F (False)	
INT_03	input	F (False)	
INT_04	input	F (False)	
INT_05	input	F (False)	
INT_06	input	F (False)	
INT_07	input	F (False)	
INT_08	input	F (False)	
INT_09	input	F (False)	
INT_10	input	F (False)	
INT_11	input	F (False)	
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INT_68	input	F (False)	
INT_69	input	F (False)	
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INT_71	input	F (False)	
INT_72	input	F (False)	
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INT_74	input	F (False)	
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INT_83	input	F (False)	
INT_84	input	F (False)	
INT_85	input	F (False)	
INT_86	input	F (False)	

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INT_115 input F (False)	INT_113	input	F (False)
	INT_114	input	F (False)
INT_116 input F (False)	INT_115	input	F (False)
	INT_116	input	F (False)

3.0 Bus Slave Ports

This model has the following bus slave ports:

3.1 Bus Slave Port: INTCP0

Table 2. Bus Slave Port: INTCP0

Name	Size (bytes)	Must Be Connected	Description
INTCP0	0xfc	F (False)	

Table 3. Bus Slave Port: INTCP0 Registers:

Name	Offset	Width (bits)	Description	R/W	is Volatile
reg0_IMR0	0x0	16			
reg0_IMR1	0x2	16			
reg0_IMR2	0x4	16			
reg0_IMR3	0x6	16			
reg0_IMR4	0x8	16			
reg0_IMR5	0xa	16			

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reg0_IMR6	0xc	16		
reg0_IMR7	0xe	16		
reg1_IC000	0x10	8		
reg1_IC001	0x12	8		
reg1_IC002	0x14	8		
reg1_IC003	0x16	8		
reg1_IC004	0x18	8		
reg1_IC005	0x1a	8		
reg1_IC006	0x1c	8		
reg1_IC007	0x1e	8		
reg1_IC008	0x20	8		
reg1_IC009	0x22	8		
reg1_IC010	0x24	8		
reg1_IC011	0x26	8		
reg1_IC012	0x28	8		
reg1_IC013	0x2a	8		
reg1_IC014	0x2c	8		
reg1_IC015	0x2e	8		
reg1_IC016	0x30	8		
reg1_IC017	0x32	8		
reg1_IC018	0x34	8		
reg1_IC019	0x36	8		
reg1_IC020	0x38	8		
reg1_IC021	0x3a	8		
reg1_IC022	0x3c	8		
reg1_IC023	0x3e	8		
reg1_IC024	0x40	8		
reg1_IC025	0x42	8		
reg1_IC026	0x44	8		
reg1_IC027	0x46	8		
reg1_IC028	0x48	8		
reg1_IC029	0x4a	8		
reg1_IC030	0x4c	8		
reg1_IC031	0x4e	8		
reg1_IC032	0x50	8		
reg1_IC033	0x52	8		
reg1_IC034	0x54	8		
reg1_IC035	0x56	8		
reg1_IC036	0x58	8		
reg1_IC037	0x5a	8		
reg1_IC038	0x5c	8		
reg1_IC039	0x5e	8		
reg1_IC040	0x60	8		
reg1_IC041	0x62	8		
reg1_IC042	0x64	8		
reg1_IC043	0x66	8		
reg1_IC044	0x68	8		
reg1_IC045	0x6a	8		

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Page 1.0047 1066					
Page 1.0047 1066	reg1_IC046	0x6c	8		
reg_LCO48	reg1_IC047	0x6e	8		
reg.l.10049 0.72 8	reg1_IC048	0x70	8		
reg_110081 0.74 8 <	reg1_IC049	0x72	8		
reg_1C051 0x76 8 <t< td=""><td></td><td>0x74</td><td></td><td></td><td></td></t<>		0x74			
reg_1C052 0x78 8 <t< td=""><td></td><td>0x76</td><td>8</td><td></td><td></td></t<>		0x76	8		
reg_1C053 0x7a 8 <t< td=""><td></td><td>0x78</td><td>8</td><td></td><td></td></t<>		0x78	8		
reg_I_COSS 0x7c 8 .	reg1_IC053	0x7a	8		
reg. _COSS 0x7e 8 <	reg1_IC054	0x7c	8		
reg _CO56 0x80 8 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
reg_I_COS7 0x82 8					
reg_I_COSS 0x84 8					
reg_I_CO59 0x86 8 <		0x84	8		
reg_I_C060 0x88 8 Image (Co6) 0x86 8 reg_I_C061 0x86 8 Image (Co6) Image (Co6) <t< td=""><td></td><td>0x86</td><td>8</td><td></td><td></td></t<>		0x86	8		
reg_I_C061 0x8a 8 Image (Cob)		0x88	8		
regl_IC062 0x8c 8	reg1_IC061	0x8a	8		
regl_C064 0x90 8	reg1_IC062	0x8c	8		
regl_C064 0x90 8	reg1_IC063	0x8e	8		
regl_C065 0x92 8	reg1_IC064	0x90	8		
regl_1C066 0x94 8 <					
regl_C067 0x96 8 regl_C068 0x98 8 regl_C069 0x9a 8 regl_C070 0x9c 8 regl_C071 0x9c 8 regl_C072 0xa0 8 regl_C073 0xa2 8 regl_C074 0xa4 8 regl_C075 0xa6 8 regl_C076 0xa8 8 regl_C077 0xaa 8 regl_C077 0xaa 8 regl_C079 0xaa 8 regl_C080 0xb0 8 regl_C080 0xb0 8 regl_C081 0xb2 8 regl_C082 0xb4 8 regl_C083 0xb6 8 regl_C084 0xb2 8 regl_C085 0xb4 8 regl_C084 0xb8 8 regl_C085 0xba 8 regl_C086 0xba 8 regl_C087		0x94			
reg1_C068 0x98 8 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
reg1_C069 0x9a 8 reg1_C070 0x9c 8 reg1_C071 0x9c 8 reg1_C072 0xa0 8 reg1_C073 0xa2 8 reg1_C074 0xa4 8 reg1_C075 0xa6 8 reg1_C076 0xa8 8 reg1_C077 0xaa 8 reg1_C078 0xac 8 reg1_C079 0xae 8 reg1_C080 0xb0 8 reg1_C081 0xb2 8 reg1_C082 0xb4 8 reg1_C083 0xb6 8 reg1_C084 0xb8 8 reg1_C085 0xb6 8 reg1_C086 0xb8 8 reg1_C086 0xb6 8 reg1_C087 0xbe 8 reg1_C086 0xbc 8 reg1_C086 0xbc 8 reg1_C087 0xbc 8 reg1_C089			8		
reg1_CO70 0x9c 8 reg1_CO71 0x9c 8 reg1_CO72 0xa0 8 reg1_CO73 0xa2 8 reg1_CO74 0xa4 8 reg1_CO75 0xa6 8 reg1_CO76 0xa8 8 reg1_CO77 0xaa 8 reg1_CO78 0xac 8 reg1_CO79 0xae 8 reg1_CO80 0xb0 8 reg1_CO81 0xb2 8 reg1_CO82 0xb4 8 reg1_CO83 0xb6 8 reg1_CO84 0xb8 8 reg1_CO85 0xba 8 reg1_CO86 0xbc 8 reg1_CO86 0xbc 8 reg1_CO87 0xbc 8 reg1_CO89 0xbc 8 reg1_CO89 0xbc 8 reg1_CO89 0xbc 8 reg1_CO89 0xc2 8 reg1_CO91					
regl_IC071 0x9e 8 Image: Core Core Core Core Core Core Core Core					
regl_IC072 0xa0 8					
regl_IC073 0xa2 8					
reg1_C074 0xa4 8			8		
reg1_IC076 0xa8 8 ————————————————————————————————————	reg1_IC074	0xa4	8		
reg1_IC076 0xa8 8 ————————————————————————————————————					
reg1_IC077 0xaa 8 ————————————————————————————————————		0xa8	8		
reg1_IC078 0xac 8		0xaa	8		
reg1_IC079 0xae 8	reg1_IC078	0xac	8		
reg1_IC080 0xb0 8		0xae	8		
reg1_IC081 0xb2 8	reg1_IC080				
reg1_IC083 0xb6 8	reg1_IC081	0xb2	8		
reg1_IC084 0xb8 8 .	reg1_IC082	0xb4	8		
reg1_IC085 0xba 8	reg1_IC083	0xb6	8		
reg1_IC086 0xbc 8 .	reg1_IC084	0xb8	8		
reg1_IC087 0xbe 8	reg1_IC085	0xba	8		
reg1_IC087 0xbe 8	reg1_IC086				
reg1_IC088 0xc0 8 .	reg1_IC087				
reg1_IC089 0xc2 8	reg1_IC088		8		
reg1_IC090 0xc4 8	reg1_IC089				
reg1_IC091 0xc6 8	reg1_IC090				
reg1_IC092 0xc8 8	reg1_IC091				
	reg1_IC092				
	reg1_IC093		8		

reg1_IC094	0xcc	8		
reg1_IC095	0xce	8		
reg1_IC096	0xd0	8		
reg1_IC097	0xd2	8		
reg1_IC098	0xd4	8		
reg1_IC099	0xd6	8		
reg1_IC100	0xd8	8		
reg1_IC101	0xda	8		
reg1_IC102	0xdc	8		
reg1_IC103	0xde	8		
reg1_IC104	0xe0	8		
reg1_IC105	0xe2	8		
reg1_IC106	0xe4	8		
reg1_IC107	0xe6	8		
reg1_IC108	0xe8	8		
reg1_IC109	0xea	8		
reg1_IC110	0xec	8		
reg1_IC111	0xee	8		
reg1_IC112	0xf0	8		
reg1_IC113	0xf2	8		
reg1_IC114	0xf4	8		
reg1_IC115	0xf6	8		
reg1_IC116	0xf8	8		
reg1_ISPR	0xfa	8		

4.0 Platforms that use this peripheral component

Peripheral components can be used in many different platforms, including those developed by Imperas or by other users of OVP. You can use this peripheral in your own platforms.

Table 4. Publicly available platforms using peripheral 'intc'

Platform Name	Vendor
RenesasUPD70F3441	renesas.ovpworld.org
RenesasUPD70F3441	renesas.ovpworld.org

This peripheral is used in some internal Imperas virtual platforms. Please contact Imperas for more information.

5.0 Peripheral components in the library

Peripheral	Peripheral	Peripheral		
renesas.ovpworld.org/memc	renesas.ovpworld.org/rng	renesas.ovpworld.org/taa		
renesas.ovpworld.org/tms	renesas.ovpworld.org/tmt	renesas.ovpworld.org/uartc		
renesas.ovpworld.org/UPD70F3441Logic	riscv.ovpworld.org/CLINT	riscv.ovpworld.org/PLIC		
riscv.ovpworld.org/SmartLoaderRV64Linux	safepower.ovpworld.org/node	safepower.ovpworld.org/NostrumNode		
safepower.ovpworld.org/ring_oscillator	safepower.ovpworld.org/TTELNode	sifive.ovpworld.org/gpio		
sifive.ovpworld.org/MSEL	sifive.ovpworld.org/PRCI	sifive.ovpworld.org/pwm		
sifive.ovpworld.org/spi	sifive.ovpworld.org/teststatus	sifive.ovpworld.org/UART		
smsc.ovpworld.org/LAN9118	smsc.ovpworld.org/LAN91C111	ti.ovpworld.org/tca6416a		
ti.ovpworld.org/UartInterface	ti.ovpworld.org/ucd9012a	ti.ovpworld.org/ucd9248		
vendor.com/fifo	xilinx.ovpworld.org/axi-gpio	xilinx.ovpworld.org/axi-intc		
xilinx.ovpworld.org/axi-pcie	xilinx.ovpworld.org/axi-timer	xilinx.ovpworld.org/logicore-fit		
xilinx.ovpworld.org/mdm	xilinx.ovpworld.org/mpmc	xilinx.ovpworld.org/xps-gpio		
xilinx.ovpworld.org/xps-iic	xilinx.ovpworld.org/xps-intc	xilinx.ovpworld.org/xps-ll-temac		
xilinx.ovpworld.org/xps-mch-emc	xilinx.ovpworld.org/xps-sysace	xilinx.ovpworld.org/xps-timer		
xilinx.ovpworld.org/xps-uartlite	xilinx.ovpworld.org/zynq_7000-can	xilinx.ovpworld.org/zynq_7000-ddrc		
xilinx.ovpworld.org/zynq_7000-devcfg	xilinx.ovpworld.org/zynq_7000-dmac	xilinx.ovpworld.org/zynq_7000-gpio		
xilinx.ovpworld.org/zynq_7000-iic	xilinx.ovpworld.org/zynq_7000-ocm	xilinx.ovpworld.org/zynq_7000-qos301		
xilinx.ovpworld.org/zynq_7000-qspi	xilinx.ovpworld.org/zynq_7000-sdio	xilinx.ovpworld.org/zynq_7000-slcr		
xilinx.ovpworld.org/zynq_7000-spi	xilinx.ovpworld.org/zynq_7000-swdt	xilinx.ovpworld.org/zynq_7000-ttc		
xilinx.ovpworld.org/zynq_7000-tz_GPVsecurity	xilinx.ovpworld.org/zynq_7000-tz_security	xilinx.ovpworld.org/zynq_7000-usb		
altera.ovpworld.org/dw-apb-timer	altera.ovpworld.org/dw-apb-uart	altera.ovpworld.org/IntervalTimer32Core		
altera.ovpworld.org/IntervalTimer64Core	altera.ovpworld.org/JtagUart	altera.ovpworld.org/PerformanceCounterCore		
altera.ovpworld.org/RSTMGR	altera.ovpworld.org/SystemIDCore	altera.ovpworld.org/Uart		
amd.ovpworld.org/79C970	andes.ovpworld.org/ATCUART100	andes.ovpworld.org/NCEPLIC100		
andes.ovpworld.org/NCEPLMT100	arm.ovpworld.org/AaciPL041	arm.ovpworld.org/CompactFlashRegs		
arm.ovpworld.org/CoreModule9x6	arm.ovpworld.org/DebugLedAndDipSwitch	arm.ovpworld.org/DMemCtrlPL341		
arm.ovpworld.org/IcpControl	arm.ovpworld.org/IcpCounterTimer	arm.ovpworld.org/IntICP		
arm.ovpworld.org/IntICP	arm.ovpworld.org/KbPL050	arm.ovpworld.org/L2CachePL310		
arm.ovpworld.org/LcdPL110	arm.ovpworld.org/MmciPL181	arm.ovpworld.org/RtcPL031		
arm.ovpworld.org/SerBusDviRegs	arm.ovpworld.org/SmartLoaderArm64Linux	arm.ovpworld.org/SmartLoaderArmLinux		
arm.ovpworld.org/SMemCtrlPL354	arm.ovpworld.org/SysCtrlSP810	arm.ovpworld.org/TimerSP804		
arm.ovpworld.org/TzpcBP147	arm.ovpworld.org/UartPL011	arm.ovpworld.org/VexpressSysRegs		
arm.ovpworld.org/WdtSP805	atmel.ovpworld.org/AdvancedInterruptController	atmel.ovpworld.org/ParallelIOController		
atmel.ovpworld.org/PowerSaving	atmel.ovpworld.org/SpecialFunction	atmel.ovpworld.org/TimerCounter		
atmel.ovpworld.org/UsartInterface	atmel.ovpworld.org/WatchdogTimer	cadence.ovpworld.org/gem		
cadence.ovpworld.org/uart	cirrus.ovpworld.org/GD5446	freescale.ovpworld.org/KinetisADC		
freescale.ovpworld.org/KinetisAIPS	freescale.ovpworld.org/KinetisAXBS	freescale.ovpworld.org/KinetisCAN		
freescale.ovpworld.org/KinetisCMP	freescale.ovpworld.org/KinetisCMT	freescale.ovpworld.org/KinetisCRC		
freescale.ovpworld.org/KinetisDAC	freescale.ovpworld.org/KinetisDDR	freescale.ovpworld.org/KinetisDMA		
freescale.ovpworld.org/KinetisDMAC	freescale.ovpworld.org/KinetisDMAMUX	freescale.ovpworld.org/KinetisENET		
freescale.ovpworld.org/KinetisEWM	freescale.ovpworld.org/KinetisFB	freescale.ovpworld.org/KinetisFMC		
freescale.ovpworld.org/KinetisFTFE	freescale.ovpworld.org/KinetisFTM	freescale.ovpworld.org/KinetisGPIO		

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freescale.ovpworld.org/KinetisI2C	freescale.ovpworld.org/KinetisI2S	freescale.ovpworld.org/KinetisLLWU		
freescale.ovpworld.org/KinetisLPTMR	freescale.ovpworld.org/KinetisMCG	freescale.ovpworld.org/KinetisMPU		
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freescale.ovpworld.org/VybridANADIG	freescale.ovpworld.org/VybridCCM	freescale.ovpworld.org/VybridDMA		
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freescale.ovpworld.org/VybridQUADSPI	freescale.ovpworld.org/VybridSDHC	freescale.ovpworld.org/VybridSPI		
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imperas.ovpworld.org/uart	imperas.ovpworld.org/usecCounter	intel.ovpworld.org/82077AA		
intel.ovpworld.org/82371EB	intel.ovpworld.org/8253	intel.ovpworld.org/8259A		
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maxim.ovpworld.org/max673x	microsemi.ovpworld.org/CoreUARTapb	mips.ovpworld.org/16450C		
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national.ovpworld.org/16450	national.ovpworld.org/16550	national.ovpworld.org/16550_4bytes		
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ovpworld.org/FlashDevice	ovpworld.org/ledRegister	ovpworld.org/SerInt		
ovpworld.org/SimpleDma	ovpworld.org/switchRegister	ovpworld.org/temperatureSensor		
ovpworld.org/trap	ovpworld.org/trap4K	ovpworld.org/vEthernet_Bridge		
ovpworld.org/VirtioBlkMMIO	ovpworld.org/VirtioNetMMIO	philips.ovpworld.org/ISP1761		
renesas.ovpworld.org/adc	renesas.ovpworld.org/bcu	renesas.ovpworld.org/brg		
renesas.ovpworld.org/can	renesas.ovpworld.org/can	renesas.ovpworld.org/clkgen		
renesas.ovpworld.org/crc	renesas.ovpworld.org/csib	renesas.ovpworld.org/csie		
renesas.ovpworld.org/dma	renesas.ovpworld.org/intc			

6.0 General Information on Peripheral Models

This document provides usage information for an Imperas OVP peripheral behavioral model.

The document is split into sections providing specific information for this peripheral, including any ports for connecting into a platform, registers etc. and configuration options and general information for peripheral modeling with Imperas OVP.

6.1 Background

Imperas OVP simulation technology enables very high performance simulation, debug and analysis of platforms containing multiple processors and peripheral models. The technology is designed to be extensible: you can create new models of processors, peripherals and other platform components using interfaces and libraries defined by OVP.

The peripheral models created using the OVP APIs run on the Peripheral Simulation Engine (PSE).

The model is typically written in C and compiled into an executable for the PSE processor architecture. The model is compiled for speed of execution and to protect IP. It is dynamically loaded by the simulator at run time.

7.0 Building peripherals easily with Imperas iGen

To aid with model creation, Imperas products include iGen, a model generation tool. iGen takes the laborious and error-prone task of constructing the various hardware model and software element files required for a typical model, and automates this process. iGen creates the needed C files. iGen also creates the C++ SystemC TLM2 interface files needed to run peripheral models in SystemC simulations.

iGen takes as input a simple script specification that includes device internals such as registers and memories, port information, component descriptors, and other elements. iGen then builds the C code model files and user editable templates. These include model frameworks with registers, function calls, memory map, and other items. It ensures that all component parts of the model are well-structured using best practices, and are consistent throughout the files, thus eliminating a common source of errors.

More information on iGen can be found: imperas.com/products.

8.0 Peripheral model internals

Each instance of a peripheral model runs on its own virtual machine with an address space large enough for the model. This processor (the PSE) and its memory are separate from any processors, memories and buses in the platform being simulated; they exist only to execute the code of the peripheral model.

Interception of functions defined in the peripheral model allows the use of features of the host system in the

implementation of the behavior of a peripheral. As an example, a real platform might contain a video display device. When simulating this system, it is generally more convenient not to simulate the complete video display device but to use a video package available on the host machine, such as SDL, and to use this to render to the host display. Also models of uarts, ethernet devices and USB components can make use of the host PC resources during simulation, to allow, for example, a simulation to browse the real internet, or the simulation to connect to a real USB device.

9.0 Parts of peripheral models

9.1 Configuring the Peripheral Instance with Parameters

A peripheral can include the behaviour of several configurations. These are controlled when the peripheral is instanced in the platform by setting parameters defined on the peripheral.

9.2 Net Ports

Peripherals may be connected to other peripherals or processors with signal wires (nets). These can be used to act as interrupt signals or used to control behavior between peripherals.

The wires are created in the platform as nets and this net is connected into the peripheral using a net port.

9.3 Bus master ports

A bus master port initiates (and controls the address of) a bus cycle. Bus cycles are generated by behavioral code within the peripheral model.

9.4 Bus slave ports

A peripheral can be defined as having several bus slave ports. The bus slave ports can be split into several address blocks. Each address block be either local memory or memory mapped registers. Both of these can have associated callback functions. A memory mapped register can also be defined as specific read/write access, whether it is volatile, and also whether it is associated with a reset pin and mask. A memory mapped register can also have specific bit fields defined.

9.5 Packetnets

A peripheral can be defined as being connected to packetnet ports. A packetnet is used to model packet based communication such as Ethernet, CAN bus or GSM. A packetnet is created in a platform, then connected to packetnet ports on model instances. A packetnet can have many connections, each able to send or receive packets. A packetnet is used as an efficient method of communication within OVP models.

For more information on modeling with packetnets, please see the peripheral modeling documentation: OVP_Peripheral_Modeling_Guide.pdf, OVPsim_and_CpuManager_User_Guide.pdf and the example: \$IMPERAS_HOME/Examples/Models/Peripherals/packetnet.

10.0 More information (documentation) on peripheral models and modeling

More information on modeling and APIs can be found at: OVPworld.org/technology_apis.

Specifics on modeling peripherals can be found: OVP_Peripheral_Modeling_Guide.pdf .							
A full list of the currently available OVP documentation is available: OVPworld.org/documentatio #							