

# Imperas Guide to using Virtual Platforms

# Platform / Module Specific Information for safepower.ovpworld.org / Zynq\_PL\_TTELNoC\_node

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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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 $Imperas\ Virtual\ Platform\ Documentation\ for\ Zynq\_PL\_TTELNoC\_node$ 

# 1.0 Platform / Module: Zynq\_PL\_TTELNoC\_node

This document provides the details of the usage of an Imperas OVP Virtual Platform / Module. The first half of the document covers specifics of this particular component. For more information about Imperas OVP virtual platforms, how they are built and used, please see the later sections in this document.

# 1.1 Virtual Platform / Module Type

Hardware described using OVP can either be a platform, module, processor, or peripheral.

This hardware component is described as being a module. A module is a component that is used in other modules, platforms, or test harnesses. It is normally used to encapsulate a layer in a hierarchical system.

#### 1.2 Licensing

Open Source Apache 2.0

## 1.3 Description

This module implements a NoC ni used to implement an example TTEL NoC in the Xilinx Zynq Programmable Logic (PL).

This PL configuration instances one Xilinx MicroBlaze processor with a local memory and a TTEL NoC interface peripheral.

#### 1.4 Limitations

This is baremetal only.

## 1.5 Reference

No Reference

#### 1.6 Location

The Zynq\_PL\_TTELNoC\_node virtual platform / module is located in an Imperas/OVP installation at the VLNV: safepower.ovpworld.org / module / Zynq\_PL\_TTELNoC\_node / 1.0.

#### 1.7 Module Simulation Attributes

## Table 1. Module Simulation Attributes

Attribute	Value	Description
stoponctrlc	stoponetrle	Stop on control-C

# 2.0 External Ports for Module Zynq\_PL\_TTELNoC\_node

#### Table 2. External Ports

Port Type	Port Name	Internal Connection
packetnetport	networkNodePort	networkNode

# 3.0 Formal Parameters declared for Module Zynq\_PL\_TTELNoC\_node

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#### Table 3. Formal Parameters

Name	Type	Min	Max	Default
cluster	uns32			
tile	uns32			
node	uns32			

# 4.0 Processor [xilinx.ovpworld.org/processor/microblaze/1.0] instance: cpu

#### 4.1 Instance Parameters

Several parameters can be specified when a processor is instanced in a platform. For this processor instance 'cpu' it has been instanced with the following parameters:

Table 4. Processor Instance 'cpu' Parameters (Configurations)

Parameter	Value	Description
mips	100	The nominal MIPS for the processor
defaultsemihost		This processor should load the default semihost library

# 4.2 Memory Map for processor 'cpu' bus: 'pBus'

Processor instance 'cpu' is connected to bus 'pBus' using master port 'INSTRUCTION'.

Processor instance 'cpu' is connected to bus 'pBus' using master port 'DATA'.

Table 5. Memory Map ('cpu' / 'pBus' [width: 32])

Lo Address	Hi Address	Instance	Component
0x0	0x3FFFFFF	ramS	ram
0x80000000	0x80FFFFFF	ni	TTELNode

# 4.3 Net Connections to processor: 'cpu'

There are no nets connected to this processor.

# **5.0 Peripheral Instances**

# 5.1 Peripheral [safepower.ovpworld.org/peripheral/TTELNode/1.0] instance: ni

#### 5.1.1 Description

The TTEL Network on Chip (NoC) node peripheral for SafePower Project

#### 5.1.2 Licensing

Open Source Apache 2.0

#### 5.1.3 Limitations

This model implements the TTEL NoC node processor interface. It does not model any timing in the transfer of messages between nodes.

#### 5.1.4 Reference

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Generated using document TTEL Software Extensions ver 1.0 and D1.2.1 architectural style of dreams r1-0.

Table 6. Configuration options (attributes) set for instance 'ni'

Attribute	Value	Туре	Expression
cluster	cluster	uns32	
tile	tile	uns32	
node	node	uns32	

# **6.0 Overview of Imperas OVP Virtual Platforms**

This document provides the details of the usage of an Imperas OVP Virtual Platform / Module. The first half of the document covers specifics of this particular virtual platform / module.

This second part of the document, includes information about Imperas OVP virtual platforms and modules, how they are built and used.

The Imperas virtual platforms are designed to provide a base for you to run high-speed software simulations of CPU-based SoCs and platforms on any suitable PC. They are typically based on the functionality of vendors fixed or evaluation platforms, enabling you to simulate software on these reference platforms. Typically virtual platforms are fixed and require the vendor to modify or extend them. Imperas virtual platforms are different in that they enable you to extend the functionality of the virtual platform, to closer reflect your own platform, by adding more component models, running different operating systems or adding additional applications.

Imperas virtual platforms are created using the Imperas iGen technology, allowing them to be used with Imperas OVP based simulators and also with Accellera/OSCI compliant SystemC simulators and commercial EDA System Design environments that use SystemC.

Virtual platforms include simulation models of the target devices, including the processor model(s) for the target device plus enough peripheral models to boot an operating system or run bare metal applications. The platform and the peripheral models used in most of the virtual platforms are open source, so that you can easily add new models to the platform as well as modify the existing models. Some models are only provided as binary, normally because the IP owner has restricted the release of the model source. In this case, please contact Imperas for more information.

There are typically several generic flavors of the virtual platforms for specific processor families, some targeting full operating systems, such as Linux, and some which focus on Real Time Operating Systems (RTOS) such as Mentor Nucleus or freeRTOS. OVP models of the processor cores are included in the virtual platforms, and for those processors which support mulitple cores SMP Linux is often supported for that virtual platform. For all of these virtual platforms, many of the peripheral components of the platform are modeled, often including the Ethernet and USB components. The semi-hosting capability of the Imperas virtual platform simulator products enables connection via the Ethernet and USB components from the virtual platform to the real world via the x86 host machine.

The Imperas OVP CPU models are written using the OVP Virtual Machine Interface (VMI) API 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. The processor models are Instruction Accurate and do not model the detailed cycle timing of the processor and they implement functionality at the level of a Programmers View of the processor and peripherals and the software running on them does not know it is not running on hardware. Many 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

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and modify the model. The models are run through an extensive QA and regression testing process and most processor model families are validated using technology provided by the processor IP owners. All the models in this platform are developed with the Open Virtual Platforms APIs and are implemented in C. A platform can be modeled as different levels of hierarchy using separately describable and compilable modules.

More information on modeling and APIs can be found on the www.OVPworld.org site.

# 7.0 Getting Started with Imperas OVP Virtual Platforms

Virtual platforms are downloadable from the OVPworld website <a href="OVPworld.org/downloads">OVPworld.org/downloads</a>. You need to browse and look for '<platform processor name> Examples'. You do need to be registered and logged in on the OVP site to download. OVPworld currently provides 32 bit host versions of packages containing virtual platforms.

When downloading, choose, Linux or Windows host. 32 bit packages can be installed and executed on 32 bit or 64 bit hosts. If you require a 64 bit host version please contact Imperas.

For example, for the ARM Versatile Express platform booting Linux on Cortex-A15MP Single, Dual, and Quad core procesors, you would want the download package:

 $"OVP sim\_demo\_Linux\_ArmVersatile Express\_arm\_Cortex-A15MP".$ 

Most virtual platform packages contain the platform and all the processor and peripheral models needed. You will need to download a simulator to run the platform. You can use OVPsim, downloadable from <a href="https://ovp.downloads">OVPworld.org/downloads</a>, or you can use one of the Imperas simulators (<a href="https://imperas.com/products">imperas.com/products</a>) available commercially from Imperas.

# 8.0 Simulating Software

# 8.1 Getting a license key to run

After you have downloaded you will need a runtime license key before the simulators will run. For OVPsim please visit <a href="OVPworld.org/likey">OVPworld.org/likey</a> and provide the required information and an evaluation/demo license key will be automatically sent to you. If you are using Imperas, then please contact Imperas for a license key.

#### 8.2 Normal runs

To run a platform, read the section below on command line control of the platform and the section on setting command line arguments.

#### 8.3 Loading Software

For most virtual platforms the platform is already configured to run the default software application/program and there is normally a script to run that sets some arguments. You can then copy/edit this script to select your own applications etc.

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The example application programs are typically .elf format files and are provided pre-compiled. There are normally makefiles and associated scripts to recompile the example applications.

To find more information about compiling and loading software, the following document should be looked at: <a href="mailto:Imperas\_Installation\_and\_Getting\_Started.pdf">Imperas\_Installation\_and\_Getting\_Started.pdf</a>.

## 8.4 Semihosting

In a virtual platform, semihosting is not normally used as there is normally hardware that implements the appropriate functionality - for example I/O will be handled by UARTs etc.

# 8.5 Using a terminal (UART)

If the platform includes one or more UARTs you will need to connect a terminal program to it so that you can see output and type into the simulated program. Review the list of peripherals below and see what configuration options it has been set with. In most cases there is an option to set to instruct the simulator to 'pop up' a terminal window connected to the simulated UART.

## 8.6 Interacting with the simulation (keyboard and mouse)

If the platform has a simulated UART you can normally set a command to get the simulator to pop up a terminal window allowing you to see output from the simulated UART and also allowing you to type characters into the UART that can be processed by the simulated software.

If your simulated platform has an LCD device then you can often configure it to recognize mouse movements and mouse clicks - allowing full interaction.

To see these interactions in action, have a look at some of the available videos available at <a href="https://overld.org/demosandvideos">OVPworld.org/demosandvideos</a>.

## 8.7 More Information (Documentation) on Simulation

To find more information about running simulations and more of the options the simulators provide, the following documents should be looked at:

Imperas Installation and Getting Started.pdf

Simulation Control of Platforms and Modules User Guide.pdf

Advanced Simulation Control of Platforms and Modules User Guide.pdf

OVP Control File User Guide.pdf

A full list of the currently available OVP documentation is available: <u>OVPworld.org/documentation</u>.

# 9.0 Debugging Software running on an Imperas OVP Virtual Platform

The Imperas and OVP simulators have several different interfaces to debuggers. These include several proprietary formats and also the standard GNU RSP format is supported allowing many compatible debuggers to be used. Below are some examples that Imperas directly support.

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#### 9.1 Debugging with GDB

A GNU debugger (GDB) can be connected to a processor in a platform using the RSP protocol. This allows the application program running on a processor to be debugged using a specific GDB for the processor selected. When using the Imperas Professional products many connections can be made allowing a GDB to be connected to all the processors in the platform.

The use of GDB is documented: OVPsim\_Debugging\_Applications\_with\_GDB\_User\_Guide.pdf.

#### 9.2 Debugging with Imperas M\*DBG

The Imperas multi-processor debugger can be connected to a platform and through this connection you can debug application programs running on all of the processors instanced within the platform. It is also capable, within this single unified environment, to debug peripheral model behavioral code in conjunction with the processor application programs.

For more information please see the Imperas M\*DBG user guide.

The Imperas multi-processor debugger is also capable of controlling the Imperas Verification Analysis aand Profiling (VAP) tools in real time, making them invaluable to application program development, debugging and analysis.

For more information please see the Imperas VAP tools user guide.

## 9.3 Debugging with the Imperas eGui and GDB

Imperas eGui gives a GUI front end to the use of the GDB debugger. It allows use of all the features of GDB including source level application program debugging on processors.

#### 9.4 Debugging with the Imperas eGui and M\*DBG

Imperas eGui gives a GUI front end to the Imperas multi-processor debugger. It provides all the features of this debugger but does so with source level application program debugging on processors and source level debugging of the behavioral code on peripheral components in the platform. A context view shows all the processor and peripheral components within the platform and allows switching between them to examine the state of each at the event at which the simulation was stopped

Imperas eGui provides a menu from which the Imperas VAP tools can be controlled.

## 9.5 Debugging with Imperas eGui and Eclipse

Imperas provide a GUI based on Eclipse called eGui. This provides a GUI front end to use with a standard GDB or the Imperas MPD (Multi-Processor Debugger).

The use of eGui is documented: <u>eGui Eclipse User Guide.pdf</u>.

A standard Eclipse CDT development environment can be connected to one or more processors in a

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platform (multiple processors require an Imperas professional product). The simulation platform is started remotely or using the external tool feature in Eclipse, opens a debug port and awaits the connection with Eclipse. All features provided by the Eclipse CDT development environment are available to be used to debug software applications executing on the processors in the platform.

The use of Eclipse is documented: OVPsim Debugging Applications with Eclipse User Guide.pdf.

# 9.6 Debugging applications running under a simulated operating system

If the simulated platform is running an Operating System and the platform has a UART or Ethernet etc connection then it is often possible to connect an external debugger and debug the applications running under the simulated operating system.

An example would be a simulated platform running the Linux operating system, such as the MIPS Malta, or ARM Versatile Express. Within the simulated Linux you can start a gdbserver that connects from within the simulation through a UART out to the host PC via a port. Within the host PC you start a terminal program and connect to the port with a debugger such as GDB and can then debug the simulated user application.

# 10.0 Modifying the Platform / Module

#### 10.1 Platforms / Modules use C/C++ and OVP APIs

The Imperas and OVP simulators execute a platform / module that is written in C/C++ and that makes function calls into the simulator's APIs. Thus the virtual platform / module is compiled from C/C++ into a binary shared object that the simulator loads and runs. OVP provides the definition and documentation that defines the C APIs for modeling the platforms, modules, the peripherals, and the processors. You can find more information about these APIs on the OVP website and in the OVP API documentation.

## 10.2 Platforms/Modules/Peripherals can be easily built with iGen from Imperas

Imperas provides a product 'iGen' that takes an input script file and creates the C/C++ files needed for platforms, modules, and peripherals - it creates the C/C++ file that is compiled into the platform, module or peripheral that is needed as an object file by the simulator. iGen creates the C/C++ files, you then need to add any necessary behaviors or further details etc. For platforms iGen creates either a C platform or a C++ SystemC TLM2 platform. For peripherals or modules iGen creates the C files and also provides a native C++ SystemC TLM2 interface to allow the peripheral/module to be instantiated in SystemC TLM2 platforms.

Information on iGen is available from: <u>imperas.com/products</u>.

## 10.3 Re-configuring the platform

There will nornmally be several configuration options that you can set when running the platform without the need to change any source. Refer to the section above on command line arguments. If these do not allow you to make the changes you need, then you may need to edit and recompile the source of the platform.

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The source of the platform, modules, and the source of the peripherals will be installed as part of the packages you are using. The sources are located in the Imperas/OVP installation VLNV source tree. The VLNV term refers to: Vendor (eg arm.ovpworld.org), Library (eg platform), Name, (eg ArmVersatileExpress-CA15), and Version (eg 1.0). To modify the platform, locate the platform source files.

If you are an Imperas user and have access to iGen, we recommend you modify the source script files and regenerate and recompile the C that makes up the platform. Refer to the Imperas iGen model generator guide and the Imperas platform generator guide.

If you are using the C or SystemC TLM2 platforms with OVPsim, then you can edit the C/C++ files, recompile the source directly using the supplied makefiles, and the run the simulator directly with the resultant shared object.

# 10.4 Replacing peripherals components

If you need to replace peripherals, find the appropriate place in the source of the platform, make the change you need, and recompile etc. Look in the library for documentation on available peripherals and their configuration options.

# 10.5 Adding new peripherals components

If you need to add peripherals, find the appropriate place in the source, make the additions you need, and recompile etc. Look in the library for documentation on available peripherals and their configuration options.

If you need to create new peripheral components then use iGen to very quickly create the necessary C/C++ files that get you started. With iGen you can create peripherals with register/memory state in a few lines of iGen source. When adding behavior to the peripherals refer to the OVP API documentation.

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# 11.0 Available Virtual Platforms

Table 7. Imperas / OVP Extendable Platform Kits (13 available)

Name	Vendor
AlteraCycloneIII_3c120	altera.ovpworld.org
AlteraCycloneV_HPS	altera.ovpworld.org
ArmIntegratorCP	arm.ovpworld.org
ArmVersatileExpress	arm.ovpworld.org
ArmVersatileExpress-CA15	arm.ovpworld.org
ArmVersatileExpress-CA9	arm.ovpworld.org
AtmelAT91SAM7	atmel.ovpworld.org
FreescaleKinetis60	freescale.ovpworld.org
FreescaleKinetis64	freescale.ovpworld.org
FreescaleVybridVFxx	freescale.ovpworld.org
MipsMalta	mips.ovpworld.org
RenesasUPD70F3441	renesas.ovpworld.org
XilinxML505	xilinx.ovpworld.org

Table 8. Imperas General Virtual Platforms (6 available)

1		
Name	Vendor	
arm-ti-eabi	arm.imperas.com	
armm-ti-coff	arm.imperas.com	
armm-ti-eabi	arm.imperas.com	
HeteroAlteraCycloneV_HPS_CycloneIII_3c120	imperas.ovpworld.org	
HeteroArmNucleusMIPSLinux	imperas.ovpworld.org	
SiFiveFU540	imperas.ovpworld.org	

Table 9. Imperas Modules (component of other platforms) (55 available)

Name	Vendor
AlteraCycloneIII_3c120	altera.ovpworld.org
AlteraCycloneV_HPS	altera.ovpworld.org
AE350	andes.ovpworld.org
ARMv8-A-FMv1	arm.ovpworld.org
ArmIntegratorCP	arm.ovpworld.org
ArmVersatileExpress	arm.ovpworld.org
ArmVersatileExpress-CA15	arm.ovpworld.org
ArmVersatileExpress-CA9	arm.ovpworld.org
AtmelAT91SAM7	atmel.ovpworld.org
ArmCortexMFreeRTOS	imperas.ovpworld.org
ArmCortexMuCOS-II	imperas.ovpworld.org
ArmuKernel	imperas.ovpworld.org
ArmuKernelDual	imperas.ovpworld.org
BareMetalMIPS	imperas.ovpworld.org
Dual_ARMv8-A-FMv1_VLAN	imperas.ovpworld.org
Hetero_1xArm_3xMips32	imperas.ovpworld.org
Hetero_ARM_RISCV_NeuralNetwork	imperas.ovpworld.org

Hetero ARM%-A-FMVI_Cortex-M3 imperas orpworld.org Hetero_AlteraCycloneV_HPS_AlteraCycloneIII_3c120 imperas orpworld.org Hetero_AlteraCycloneV_HPS_AlteraCycloneIII_3c120 imperas orpworld.org Hetero_ArmVersatiteExpress_MipsMalta imperas.orpworld.org Hetero_ArmVersatiteExpress_MipsMalta imperas.orpworld.org Quad_ArmVersatiteExpress_MipsMalta imperas.orpworld.org RiscvRV32FreeRTOS imperas.orpworld.org RiscvRV32FreeRTOS imperas.orpworld.org RiscvRV32FreeRTOS imperas.orpworld.org ReseasUPD70F3441 imperas.orpworld.org ReseasUPD		
Hetero_AllteraCycloneV_HPS_AlteraCycloneIII_3c120 imperas.ovpworld.org Hetero_ArmVersatileExpress_MipsMalta imperas.ovpworld.org  Hetero_ArmVersatileExpress_MipsMalta imperas.ovpworld.org  Quad_ArmVersatileExpress_CA15 imperas.ovpworld.org  MipsMalta imperas.ovpworld.org  MipsOvpworld.org  MipsOvpworld.org  MipsMalta imperas.ovpworld.org  MipsOvpworld.org  MipsOvpworld.org  MipsOvpworld.org  MipsMalta imperas.ovpworld.org  MipsOvpworld.org  Miltonopworld.org  Miltonopworld.org	Hetero_ARMv8-A-FMv1_Cortex-M3	imperas.ovpworld.org
Hetero_ArmIntegratorCP_XiliaxMicroBlaze imperas_ovpworld.org Hetero_ArmVersatileExpress_MijnsMalta imperas_ovpworld.org Quad_ArmVersatileExpress_XilinsMicroBlaze imperas_ovpworld.org Quad_ArmVersatileExpress_CA15 imperas_ovpworld.org Risc-RY32FreeRTOS imperas_ovpworld.org MijnsMalta imperas_ovpworld.org Renessa_UPD70F3441 reness_ovpworld.org Pall-Index_ovpworld.org MijnsMalta imperas_ovpworld.org Pall-Index_ovpworld.org MijnsMalta imperas_ovpworld.org  ### Pall-Rod imperas_ovpworld.org ### Pal	Hetero_ARMv8-A-FMv1_MIPS_microAptiv	imperas.ovpworld.org
Hetero_ArmVersatileExpress_MipsMalta imperas.ovpworld.org Hetero_ArmVersatileExpress_CA15 imperas.ovpworld.org Quad_ArmVersatileExpress_CA15 imperas.ovpworld.org RisverW32FreeRTOS imperas.ovpworld.org MipsMalta imps.ovpworld.org Milins.ovpworld.org	Hetero_AlteraCycloneV_HPS_AlteraCycloneIII_3c120	imperas.ovpworld.org
Hetero_ArmVersatileExpress_XilinxMicroBlaze imperas.ovpworld.org Quad_ArmVersatileExpress_CA15 imperas.ovpworld.org RiscvRV32FreeRTOS imperas.ovpworld.org MipsMalta mips.ovpworld.org imperas.ovpworld.org safepower.ovpworld.org safepower.ovpworld	Hetero_ArmIntegratorCP_XilinxMicroBlaze	imperas.ovpworld.org
Quad_ArmVersatileExpress-CA15 RiscrRV32FreeRTOS Imperas_ovpworld.org Impera_ovpworld.org Impera_ovpworld.org Impera_ovpworld.org Impera	Hetero_ArmVersatileExpress_MipsMalta	imperas.ovpworld.org
RiscrRV32FreeRTOS  MipsMalta  mips.orpworld.org  inX6S  nxp.ovpworld.org  nxp.ovpworld.org  renessa.ovpworld.org  phs-multi  renessa.ovpworld.org  Faultlnjection  Faultlnjection  Faultlnjection  Faultlnjection  Safepower.ovpworld.org  Faultlnjection  Safepower.ovpworld.org  Zynq_PL_DualMicroblaze  Safepower.ovpworld.org  Zynq_PL_NoC  Safepower.ovpworld.org  Zynq_PL_NoC_node  Safepower.ovpworld.org  Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC after safepower.ovpworld.org  Zynq_PL_NostrumNoC safepower.ovpworld.org  Zynq_PL_RO  Zynq_PL_SingleMicroblaze  Zynq_PL_SingleMicroblaze  Safepower.ovpworld.org  Zynq_PL_TTELNoC  Safepower.ovpworld.org  Zynq_PL_TTELNoC  Safepower.ovpworld.org  Safepower.ovpworld.org  Zynq_PL_TTELNoC  Safepower.ovpworld.org  Zynq_PL_TTELNoC  Safepower.ovpworld.org  Safepower.ovpworld.org  Zynq_PL_TTELNoC_node  Safepower.ovpworld.org  Zynq_PL_TTELNoC_node  Safepower.ovpworld.org  Zynq_PL_TTELNoC_processing_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  SSICC  Sifive.ovpworld.org  SSICC  Sifive.ovpworld.org  SSICC  Sifive.ovpworld.org  SSICC  Sifive.ovpworld.org  Sifive.ovpw	Hetero_ArmVersatileExpress_XilinxMicroBlaze	imperas.ovpworld.org
MipsMalta mips.ovpworld.org mxp.ovpworld.org mxp.ovpworld	Quad_ArmVersatileExpress-CA15	imperas.ovpworld.org
in i	RiscvRV32FreeRTOS	imperas.ovpworld.org
RenesasUPD70F3441 renesas.ovpworld.org ghs-multi renesas.ovpworld.org renesas.ovpworld.org phultipetion risev.ovpworld.org phultipetion safepower.ovpworld.org safepower.ovpworld.org Zynq_PL_DualMicroblaze zynq_PL_DualMicroblaze safepower.ovpworld.org zynq_PL_NoC safepower.ovpworld.org zynq_PL_NoC safepower.ovpworld.org zynq_PL_NoC.node safepower.ovpworld.org zynq_PL_NostrumNoC safepower.ovpworld.org zynq_PL_SingleMicroblaze zynq_PL_SingleMicroblaze safepower.ovpworld.org zynq_PL_SingleMicroblaze safepower.ovpworld.org zynq_PL_TTELNoC safepower.ovpworld.org safepower.ovpworld.org zynq_PL_TTELNoC_prode zynq_PL_TTELNoC_prode safepower.ovpworld.org sifive.ovpworld.org	MipsMalta	mips.ovpworld.org
ghs-multi renesas.ovpworld.org virtio riscv.ovpworld.org Faulthjection safepower.ovpworld.org PublicDemonstrator safepower.ovpworld.org Zynq_PL_DualMicroblaze safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoStrumNoC safepower.ovpworld.org Zynq_PL_NostrumNoC.node safepower.ovpworld.org Zynq_PL_NostrumNoC.node safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_TTELNOC safepower.ovpworld.org Zynq_PL_TTELNOC safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Synq_PL_TTELNOC.pode safepower.ovpworld.org Zynq_PL_TTELNOC.pode safepower.ovpworld.org Sifeve.ovpworld.org	iMX6S	nxp.ovpworld.org
virtio riscv.ovpworld.org FaultInjection safepower.ovpworld.org PublicDemonstrator safepower.ovpworld.org Zynq_PL_DualMicroblaze safepower.ovpworld.org Zynq_PL_NoC node safepower.ovpworld.org Zynq_PL_NoS node safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_TTELNoC Safepower.ovpworld.org Zynq_PL_TTELNoC_node safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org SilCC sifive.ovpworld.org SilCC silCC silCC silCCC silCCC silCCCC silCCCCCCCCCC	RenesasUPD70F3441	renesas.ovpworld.org
FaultInjection safepower.ovpworld.org PublicDemonstrator safepower.ovpworld.org Zynq_PL_DualMicroblaze safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoC_node safepower.ovpworld.org Zynq_PL_NostrumNoC Zynq_PL_NostrumNoC safepower.ovpworld.org Zynq_PL_RonotrumNoC_node safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_TTELNoC Zynq_PL_TTELNoC safepower.ovpworld.org Zynq_PL_TTELNoC_node safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org SSICC sifive.ovpworld.org	ghs-multi	renesas.ovpworld.org
PublicDemonstrator  Zynq_PL_DualMicroblaze  Zynq_PL_NoC  Safepower.ovpworld.org  Zynq_PL_NoC  Zynq_PL_NoC_node  Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC  Zynq_PL_RO  Zynq_PL_RO  Safepower.ovpworld.org  Zynq_PL_RO  Zynq_PL_SingleMicroblaze  Zynq_PL_TELNoC  Zynq_PL_TELNoC  Zynq_PL_TTELNoC  Zynq_PL_TTELNoC  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_processing_node_public_demonstrator  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  SSICC  Sifive.ovpworld.org  SSICC  SIIIN.ovpworld.org  Zynq_PL_Default  Zynq_PL_Default  Zynq_PL_Default  Zilinx.ovpworld.org	virtio	riscv.ovpworld.org
Zynq_PL_DualMicroblaze safepower.ovpworld.org Zynq_PL_NoC safepower.ovpworld.org Zynq_PL_NoC_node safepower.ovpworld.org Zynq_PL_NostrumNoC safepower.ovpworld.org Zynq_PL_NostrumNoC_node safepower.ovpworld.org Zynq_PL_NostrumNoC_node safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_TTELNoC Zynq_PL_TTELNoC_node safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org SSICC sifive.ovpworld.org SSICC sifive.ovpworld.org SSICC sifive.ovpworld.org Sifinx.ovpworld.org	FaultInjection	safepower.ovpworld.org
Zynq_PL_NoC  Zynq_PL_NoC_node  Zynq_PL_NoStrumNoC  Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC_node  Zynq_PL_RO  Zynq_PL_RO  Zynq_PL_RO  Safepower.ovpworld.org  Zynq_PL_SingleMicroblaze  Zynq_PL_SingleMicroblaze  Zynq_PL_TTELNoC  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_public_demonstrator  Zynq_PL_TTELNoC_public_demonstrator  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Sifive.ovpworld.org	PublicDemonstrator	safepower.ovpworld.org
Zynq_PL_NoC_node  Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC_node  Zynq_PL_NostrumNoC_node  Zynq_PL_RO  Zynq_PL_RO  Safepower.ovpworld.org  Zynq_PL_SingleMicroblaze  Zynq_PL_TTELNoC  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_processing_node_public_demonstrator  Zynq_PL_TTELNoC_public_demonstrator  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Sifive.ovpworld.org  Zynq_PL_Default  Xilinx.ovpworld.org  Zynq_PL_Default  Xilinx.ovpworld.org	Zynq_PL_DualMicroblaze	safepower.ovpworld.org
Zynq_PL_NostrumNoC  Zynq_PL_NostrumNoC_node  Zynq_PL_RO  zafepower.ovpworld.org  Zynq_PL_SingleMicroblaze  Zynq_PL_SingleMicroblaze  Zynq_PL_TTELNoC  zafepower.ovpworld.org  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_node  Zynq_PL_TTELNoC_processing_node_public_demonstrator  Zynq_PL_TTELNoC_public_demonstrator  zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  zafepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  zifive.ovpworld.org  SilCC  coreip-sS1-arty  coreip-sS1-rtl  dualFifo  xendor.com  XilinxML505  Zynq_PL_Default  Xilinx.ovpworld.org  Zynq_PL_Default  Xilinx.ovpworld.org	Zynq_PL_NoC	safepower.ovpworld.org
Zynq_PL_NostrumNoC_node safepower.ovpworld.org Zynq_PL_RO safepower.ovpworld.org Zynq_PL_SingleMicroblaze safepower.ovpworld.org Zynq_PL_TTELNoC safepower.ovpworld.org Zynq_PL_TTELNoC_node safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org Synq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org SSICC sifive.ovpworld.org SSICC sifive.ovpworld.org Sifive.ovpworld.org coreip-sS1-arty sifive.ovpworld.org coreip-sS1-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org xilinx.ovpworld.org xilinx.ovpworld.org	Zynq_PL_NoC_node	safepower.ovpworld.org
Zynq_PL_RO  zynq_PL_SingleMicroblaze  zynq_PL_TTELNoC  safepower.ovpworld.org  zynq_PL_TTELNoC_node  zynq_PL_TTELNoC_processing_node_public_demonstrator  zynq_PL_TTELNoC_public_demonstrator  zynq_PL_TTELNoC_public_demonstrator  zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  safepower.ovpworld.org  zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  safepower.ovpworld.org  sifive.ovpworld.org  sifive.ovpworld.org  sifive.ovpworld.org  sifive.ovpworld.org  sifive.ovpworld.org  coreip-s51-arty  sifive.ovpworld.org  sifive.ovpworld.org  dualFifo  vendor.com  XilinxML505  xilinx.ovpworld.org  zynq_PL_Default  xilinx.ovpworld.org  zynq_PS  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org	Zynq_PL_NostrumNoC	safepower.ovpworld.org
Zynq_PL_SingleMicroblaze safepower.ovpworld.org  Zynq_PL_TTELNoC safepower.ovpworld.org  Zynq_PL_TTELNoC_node safepower.ovpworld.org  Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org  Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org  Synq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org  SS1CC sifive.ovpworld.org  SS1CC sifive.ovpworld.org  coreip-sS1-arty sifive.ovpworld.org  coreip-sS1-rtl sifive.ovpworld.org  dualFifo vendor.com  XilinxML505 xilinx.ovpworld.org  Zynq xilinx.ovpworld.org  Zynq_PL_Default xilinx.ovpworld.org  Zynq_PS xilinx.ovpworld.org  zznq_PS xilinx.ovpworld.org  xilinx.ovpworld.org	Zynq_PL_NostrumNoC_node	safepower.ovpworld.org
Zynq_PL_TTELNoC safepower.ovpworld.org  Zynq_PL_TTELNoC_node safepower.ovpworld.org  Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org  Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org  FU540 sifive.ovpworld.org  SS1CC sifive.ovpworld.org  coreip-s51-arty sifive.ovpworld.org  coreip-s51-rtl sifive.ovpworld.org  dualFifo vendor.com  XilinxML505 xilinx.ovpworld.org  Zynq xilinx.ovpworld.org  Zynq_PL_Default xilinx.ovpworld.org  Zynq_PS xilinx.ovpworld.org  zilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org	Zynq_PL_RO	safepower.ovpworld.org
Zynq_PL_TTELNoC_node safepower.ovpworld.org Zynq_PL_TTELNoC_processing_node_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_public_demonstrator safepower.ovpworld.org Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator safepower.ovpworld.org FU540 sifive.ovpworld.org S51CC sifive.ovpworld.org coreip-s51-arty sifive.ovpworld.org coreip-s51-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	Zynq_PL_SingleMicroblaze	safepower.ovpworld.org
Zynq_PL_TTELNoC_processing_node_public_demonstrator  Zynq_PL_TTELNoC_public_demonstrator  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  Safepower.ovpworld.org  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  FU540  Sifive.ovpworld.org  S51CC  sifive.ovpworld.org  coreip-s51-arty  sifive.ovpworld.org  coreip-s51-rtl  dualFifo  vendor.com  XilinxML505  Xilinx.ovpworld.org  Zynq  Zynq_PL_Default  Xilinx.ovpworld.org	Zynq_PL_TTELNoC	safepower.ovpworld.org
Zynq_PL_TTELNoC_public_demonstrator  Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  FU540  Sifive.ovpworld.org  S51CC  Sifive.ovpworld.org  coreip-s51-arty  Sifive.ovpworld.org  coreip-s51-rtl  Sifive.ovpworld.org  wendor.com  XilinxML505  Xilinx.ovpworld.org  Zynq_PL_Default  Xilinx.ovpworld.org  Zynq_PS  Xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org	Zynq_PL_TTELNoC_node	safepower.ovpworld.org
Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator  FU540  sifive.ovpworld.org  S51CC  sifive.ovpworld.org  coreip-s51-arty  sifive.ovpworld.org  coreip-s51-rtl  sifive.ovpworld.org  dualFifo  vendor.com  XilinxML505  xilinx.ovpworld.org  Zynq  zynq_PL_Default  xilinx.ovpworld.org  zynq_PS  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org  xilinx.ovpworld.org	Zynq_PL_TTELNoC_processing_node_public_demonstrator	safepower.ovpworld.org
FU540 sifive.ovpworld.org S51CC sifive.ovpworld.org coreip-s51-arty sifive.ovpworld.org coreip-s51-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	Zynq_PL_TTELNoC_public_demonstrator	safepower.ovpworld.org
S51CC sifive.ovpworld.org coreip-s51-arty sifive.ovpworld.org coreip-s51-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	Zynq_PL_TTELNoC_sensor_actor_node_public_demonstrator	safepower.ovpworld.org
coreip-s51-arty sifive.ovpworld.org coreip-s51-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	FU540	sifive.ovpworld.org
coreip-s51-rtl sifive.ovpworld.org dualFifo vendor.com XilinxML505 xilinx.ovpworld.org Zynq xilinx.ovpworld.org Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	S51CC	sifive.ovpworld.org
dualFifo vendor.com  XilinxML505 xilinx.ovpworld.org  Zynq xilinx.ovpworld.org  Zynq_PL_Default xilinx.ovpworld.org  Zynq_PS xilinx.ovpworld.org  zc702 xilinx.ovpworld.org	coreip-s51-arty	sifive.ovpworld.org
XilinxML505 xilinx.ovpworld.org  Zynq xilinx.ovpworld.org  Zynq_PL_Default xilinx.ovpworld.org  Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	coreip-s51-rtl	sifive.ovpworld.org
Zynq xilinx.ovpworld.org  Zynq_PL_Default xilinx.ovpworld.org  Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	dualFifo	vendor.com
Zynq_PL_Default xilinx.ovpworld.org Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	XilinxML505	xilinx.ovpworld.org
Zynq_PS xilinx.ovpworld.org zc702 xilinx.ovpworld.org	Zynq	xilinx.ovpworld.org
zc702 xilinx.ovpworld.org	Zynq_PL_Default	xilinx.ovpworld.org
	Zynq_PS	xilinx.ovpworld.org
zc706 xilinx.ovpworld.org	zc702	xilinx.ovpworld.org
	zc706	xilinx.ovpworld.org

# Table 10. Imperas / OVP Bare Metal Virtual Platforms (22 available)

Name	Vendor
BareMetalNios_IISingle	altera.ovpworld.org
BareMetalArcSingle	arc.ovpworld.org
BareMetalArm7Single	arm.ovpworld.org
BareMetalArmCortexADual	arm.ovpworld.org
BareMetalArmCortexASingle	arm.ovpworld.org
BareMetalArmCortexASingleAngelTrap	arm.ovpworld.org
BareMetalArmCortexMSingle	arm.ovpworld.org

ArmCortexMFreeRTOS	imperas.ovpworld.org
ArmCortexMuCOS-II	imperas.ovpworld.org
BareMetalArmx1Mips32x3	imperas.ovpworld.org
Or1kUclinux	imperas.ovpworld.org
BareMetalM14KSingle	mips.ovpworld.org
BareMetalMips32Dual	mips.ovpworld.org
BareMetalMips32Single	mips.ovpworld.org
BareMetalMips64Single	mips.ovpworld.org
BareMetalMipsDual	mips.ovpworld.org
BareMetalMipsSingle	mips.ovpworld.org
BareMetalOr1kSingle	ovpworld.org
BareMetalM16cSingle	posedgesoft.ovpworld.org
BareMetalPowerPc32Single	power.ovpworld.org
BareMetalV850Single	renesas.ovpworld.org
ghs-multi	renesas.ovpworld.org

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