

ALMOS distribution for the TSAR many-core

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Summary

Running ALMOS on the TSAR virtual prototype requires the installation of several open-source technologies like a GCC cross-compiler for Mips (el), [?SocLib](#) virtual prototyping library, [?TSAR](#) related components, and [?SystemCASS](#). To simplify the task of building and configuring a correct development environment, ALMOS comes with a stand-alone and ready-to-use distribution.

Mainly, this distribution enables you to:

- Port your own applications and libraries to ALMOS.
- Run these applications on TSAR using several configurations ranging from 4 to 1024 cores.
- Analyse the performance of your applications or the totality of the software-stack on a large-scale many-core.

Upon your needs you can also use this distribution to:

- Validate and evaluate any hardware evolution/development in a TSAR based architectures.
- Validate and evaluate any kernel new features or updates.
- Experiment and develop new parallel programming libraries and run-times for a large-scale single-chip many-core.

Getting Started

Setup

Download the latest stable distribution from this [link](#). Decompress the .tbz2 file:

```
tar jxf almos-tsar-mipsel.tbz2
```

Now you have a sub-directory named *almos-tsar-mipsel* ... Congratulation you are done !

Run ALMOS on TSAR

Your first application