



[www.multixscale.eu](http://www.multixscale.eu)

# *EESSI Happy Hour*

*Topic Series: Environment variables to tweak EESSI*

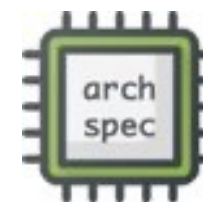
*Initialization*

<https://www.eessi.io/docs/training/2025/happy-hours-sessions>

*Mondays at 14:00 CEST*



**CernVM-FS**



Streaming Optimised  
Scientific Software

**E E S S I**

EUROPEAN ENVIRONMENT FOR  
SCIENTIFIC SOFTWARE INSTALLATIONS

Website: [eessi.io](http://eessi.io)

EESSI support portal:

[gitlab.com/eessi/support](https://gitlab.com/eessi/support)

06-10-2025



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## Session Highlights:

- Feedback: hackathon session in wake of EuroHPC User Days 2025
- ~ 587 software packages are currently available in EESSI
- Initialize EESSI [https://www.eessi.io/docs/using\\_eessi/setting\\_up\\_environment](https://www.eessi.io/docs/using_eessi/setting_up_environment)

Scenario	Main command(s)
"new machine" (traditional)	<code>source /cvmfs/software.eessi.io/versions/2023.06/init/bash</code>
no Lmod (& use module)*	<code>source /cvmfs/software.eessi.io/versions/2023.06/init/lmod/bash</code>
Lmod, use module	<code>module unuse \$MODULEPATH</code> <code>module use /cvmfs/software.eessi.io/init/modules</code> <code>module load EESSI/2023.06</code>

\*) also supports other shells by replacing `bash` with `csh`, `fish`, `ksh` or `zsh`

Controlling EESSI Startup Behavior

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Lmod



Environment variable	source .../init/bash	source .../init/lmod/\$shell	module load EESSI/2023.06
EESSI_SILENT	✓	✗	✗
EESSI_DEBUG_INIT	✗	✓	✓
EESSI_USE_ARCHDETECT	✓	✗	✗
EESSI_BASIC_ENV	✓	✗	✗
EESSI_CVMFS_REPO_OVERRIDE	✓	✓	✓
EESSI_VERSION_OVERRIDE	✓	✓	✓
EESSI_SOFTWARE_SUBDIR_OVERRIDE	✓	✓	✓
EESSI_ACCELERATOR_TARGET_OVERRIDE	✓	✓	✓
EESSI_ACCEL_SOFTWARE_SUBDIR_OVERRIDE	✓	✓	✓

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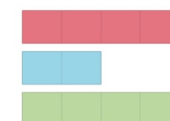
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EASYBUILD

**Lmod**



Environment variable	source .../init/bash	source .../init/lmod/\$shell	module load EESSI/2023.06
EESSI_MODULE_SUBDIR	✓	✗	✗
EESSI_CUSTOM_MODULEPATH	✓	✗	✗
LMOD_SYSTEM_DEFAULT_MODULES	✗	✓	✓
EESSI_ARCHDETECT_OPTIONS	✗	✓	✓
EESSI_ARCHDETECT_OPTIONS_OVERRIDE	✗	✓	✓
EESSI_ACCEL_SUBDIR	✗	✓	✓
EESSI_MODULE_FAMILY_NAME	✗	✓	✓
EESSI_MODULE_STICKY	✗	✓	✓

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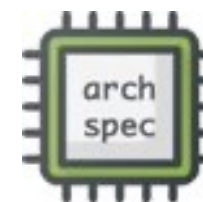
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**CernVM-FS**



*Next topic series: Building software on top of EESSI*

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