ROCm Compatibility Tables

Compatible ROCm & Cray MPICH versions

Compatibility between Cray MPICH and ROCm is required in order to
version of ROCm, and compatibility across multiple versions is not gua
default modules, you can determine compatibility by reviewing the *Pro*
displayed by running `module show cray-mpich/<version>`. If the notes ir

> **Note**
>
> If you are loading compatible ROCm and Cray MPICH versions but st
> MPICH version is being used at run-time. If it is not, verify you are pr
> and `${CRAY_MPICH_ROOTDIR}/gtl/lib`. This `LD_LIBRARY_PATH` modificat

The following compatibility table below was determined by testing of t
`mpich` and ROCm modules on Frontier. Alongside `cray-mpich`, we load
as `cray-pmi` and `craype`. It is strongly encouraged to load a `cpe` mod
are compatible. An asterisk indicates the latest officially supported vers

cray-mpich	cpe	ROCm
8.1.23	22.12	5.4.3, 5.4.0, 5.3.0*
8.1.25	23.03	5.4.3, 5.4.0*, 5.3.0
8.1.26	23.05	5.7.1, 5.7.0, 5.6.0, 5.5.1*, 5.4.3, 5.4.0, 5.3.0

Compatible Compiler & ROCm toolchain versions

All compilers in the same HPE/Cray Programming Environm
code compiled by GCC). However, the AMD and CCE comp
when cross-compiling. CCE's module version indicates the l
based on LLVM 15.0.0. It is strongly discouraged to use RO
recommended ROCm version for each CCE version, along v

CCE	CPE	Recommended ROCm Version
15.0.0	22.12	5.3.0
15.0.1	23.03	5.3.0
16.0.0	23.05	5.5.1
16.0.1	23.09	5.5.1
17.0.0	23.12	5.7.0 or 5.7.1
17.0.1	24.03	6.0.0
18.0.0	24.07	6.1.3
18.0.1	24.11	6.2.4

- Looking to use a specific ROCm version? Look at the compatibility tables in the Frontier docs first!
- Note that when using a non-default CPE module paired with ROCm, make sure to prepend CRAY_LD_LIBRARY_PATH to your LD_LIBRARY_PATH:

```
module load PrgEnv-cray
module load cpe/26.03
module load rocm/7.0.2

# Since these modules are not default, make sure to prepend CRAY_LI
export LD_LIBRARY_PATH=${CRAY_LD_LIBRARY_PATH}:${LD_LIBRARY_PATH}
```