



Hewlett Packard
Enterprise

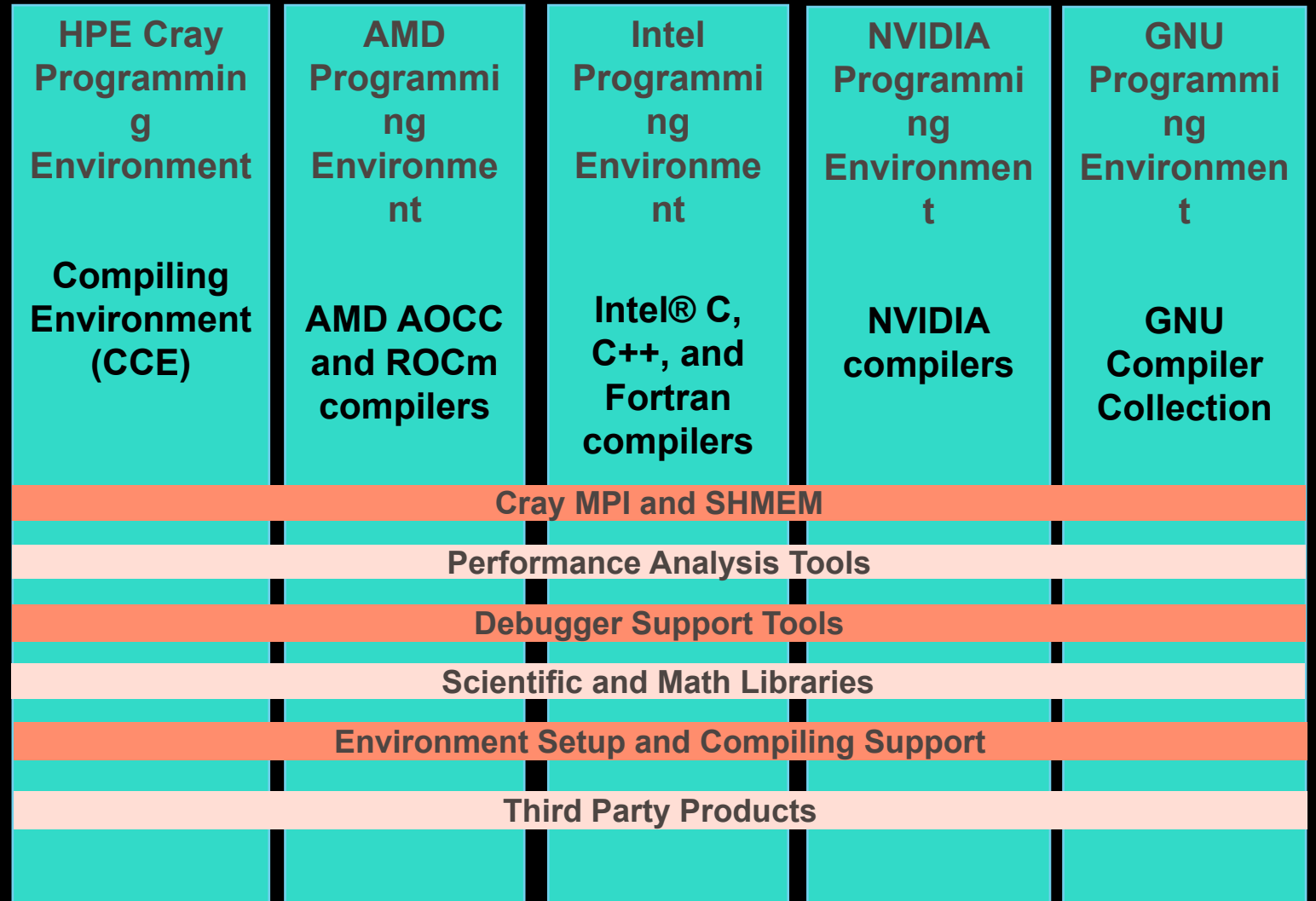
HPE CRAY PROGRAMMING ENVIRONMENT-

Cray/HPE OpenACC development

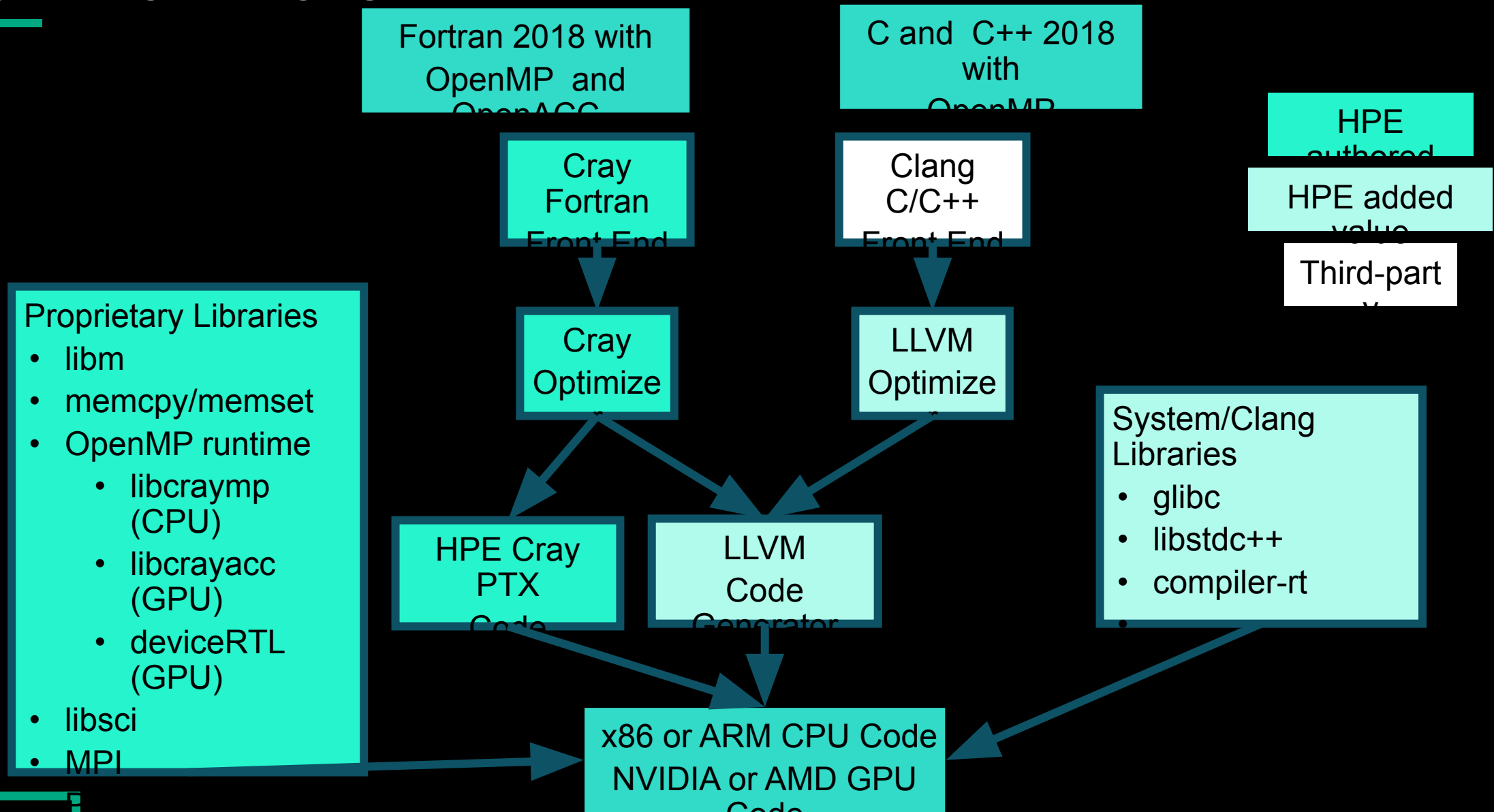
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Technologist

PROVIDING THE USER WITH COMPILER CHOICE

- Use modules to select compiling environment
 - Automatically uses our math, scientific, and communication libraries with chosen compiler
 - Can use debug and profiling tools with chosen compiler



CCE ARCHITECTURE



A LITTLE RECENT HISTORY

- Fall 2020 Cray dropped OpenACC and Nvidia support – all effort went into development of OpenMP Offload for Coral 2
- July 2021 Cray/HPE picked up OpenACC (Then at 2.0) and started to develop code generation for Nvidia A100
- 2022 was completely dominated by adding capabilities for 2022 acceptances in EMEA.
- So you ask what level of OpenACC do we support – the answer is whatever
 - VASP needs
 - ICON needs
 - Quantum Espresso needs
 - ETC – whatever the acceptances need
- Next year we do expect to fill out holes that were not required for acceptances
- At this time, we only support OpenACC in Fortran
- We also already have coded ready to support Grace and working on Hopper



THANK YOU

