Hewlett Packard Enterprise

HPE'S CRAY PROGRAMMING ENVIRONMENT

John Levesque Chief Technologist for Programming
Environment
Nov 16, 2021
Relocating to Portugal Nov 28th

COMPONENTS OF THE HPE CRAY PROGRAMMING ENVIRONMENT

CRAY COMPILING ENVIRONMENT

CRAY MESSAGE PASSING TOOLKIT

CRAY PERFORMANCE TOOLS

CRAY SCIENTIFIC LIBRARIES FOR CPUS AND GPUS

CRAY DEBUGGING TOOLS

CONTAINERIZED CRAY PROGRAMMING ENVIRONMENT

RESUME SUPPORT FOR OPENACC

CURRENTLY AT OPENACC 2.7

SUPPORT FOR OPENACC 3.0   **JUNE 2022**

CONTINUE SUPPORT WITH OPENACC 3.1 AND BEYOND

SUPPORT ON BOTH AMD AND NVIDIA FOR FORTRAN ONLY

RESUME SUPPORT FOR NVIDIA GPUS

SUPPLY OPENACC AND OPENMP FOR A100   **JUNE 2022**

SUPPLY SUPPORT FOR GRACE

CONTINUE SUPPORT FOR INTEL, AMD, NVIDIA AND ARM HARDWARE

BY THE END OF 2022 WE WILL BE ABLE TO GENERATE CODE FOR ANY REASONABLE HARDWARE

BY THE END OF 2022 WE WILL BE UP TO THE STANDARD IN FORTRAN CURRENTLY FORTRAN 18

BY THE END OF 2022 WE WILL BE UP TO THE STANDARD IN C AND C++ CURRENTLY AT C++17

BY THE END OF 2022 WE WILL BE UP TO THE STANDARD IN OPENMP OFFLOAD CURRENTLY AT 5.0

BY THE END OF 2022 WE WILL BE UP TO THE STANDARD IN OPENACC. CURRENTLY AT 2.7