DZA Hardware Overview

Julia, a Shared Memory System (HPE Superdome Flex Server) is in use:

- 8 nodes
    - 2 chassis with 4 nodes each
- 224 physical cores
    - 8 Intel(R) Xeon(R) Platinum 8276M CPU @ 2.20 GHz
    - with 28 physical cores
- 11,8 TB RAM usable
    - 12 x 128 GB DDR4-2933 MT/s per socket

The whole system will be used step by step in the future

- 4 times more usable capacity than specified above
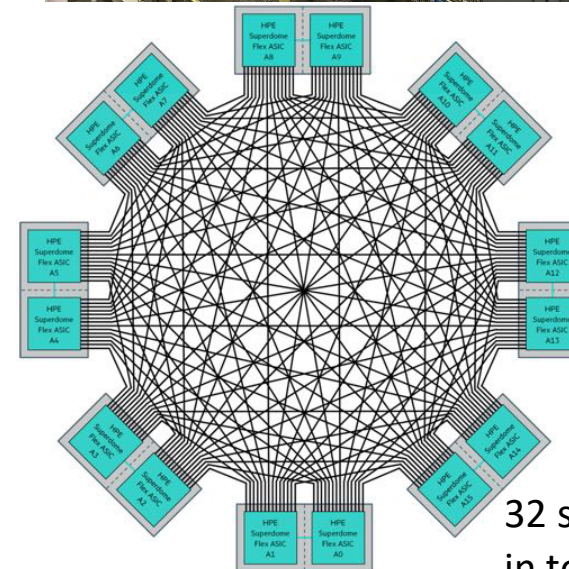
System Specifications

- SLES 15 SP6 (bound to a varying subset of nodes)
- A certain amount of working memory is bound as ram drive via tmpfs
- Various tests with well known codes like CASA were carried out
    - Julia is ready for research and code development!

front

Julia

back

32 sockets
in total

Varying compute and memory resources in use