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HPCE Group (7905) Update

AWI department meeting, 27. May 2024

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27. 05. 2024

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TransAlps 000









Current HPC services

Merlin 6

- planned to run until end of 2024. GPU Resources may run longer (in discussion)
- warranty of storage valid until end of 2024
- warranty for compute nodes partially running out, will not be extended (decision by director). Calculated risk, could lose an enclosure.
- Large scale HPC project Ressources at CSCS PizDaint
 - a ca 15 projects per year, allocations based on requests from a yearly survey
 - reduction of funding this year: 130kCHF -> 100 kCHF
 - CSCS shutting Piz Daint down this year around Summer with minimal overlap with Alps. Reason: Limits regarding electricity and costs (Alps consuming massive amounts of electricity)
 - projects need to get migrated from Piz Daint to new userlab resources on Alps Eiger.
- Tier-3
 - to be moved to CSCS as another vCluster (but in CSCS network), profiting from the Tier-2 cluster that CHIPP has been running at CSCS since 2006
 - move date still unclear, delayed through TransAlps Merlin7 priority.
 - Price update (67% increase in regard to Tier-2 storage) regarding mass storage may endander establishing of Tier-3 at CSCS. Starting discussions.





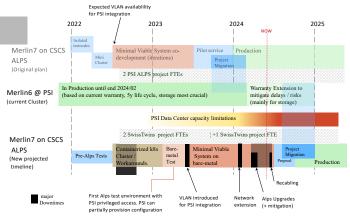
TransAlps Update

Shifting of Milestones by 3 months

- 2024-07-01: PSI Preproduction
- 2024-10-01: PSI Production
- Reasons for shifting milestones
 - major Architectural change decided in Nov. PSI building own supporting service platform (VM/k8s) at PSI
 - Alps base platform not yet fully stable. Changes in underlying CSCS layers frequently affecting PSI development
 - March 11th: CSCS announced Alps upgrade downtime 18.03.-10.05.2024. Several revisions of schedule. Final upgrade step announced last week for 10.-14.06.
 - mitigated by 2 nodes on another system, but still disruptive
- PSI production system and availability of GraceHopper nodes
 - CSCS deployed Grace Hopper nodes in May, now finishing recabling
 - PSI projected to have some initial Grace Hopper from June 17th!
- Current high priority issue to resolve
 - Some communication problems between PSI VM services and Alps Lustre storage, possibly due to network MTU differences and path discovery failures







Merlin7 architecture

