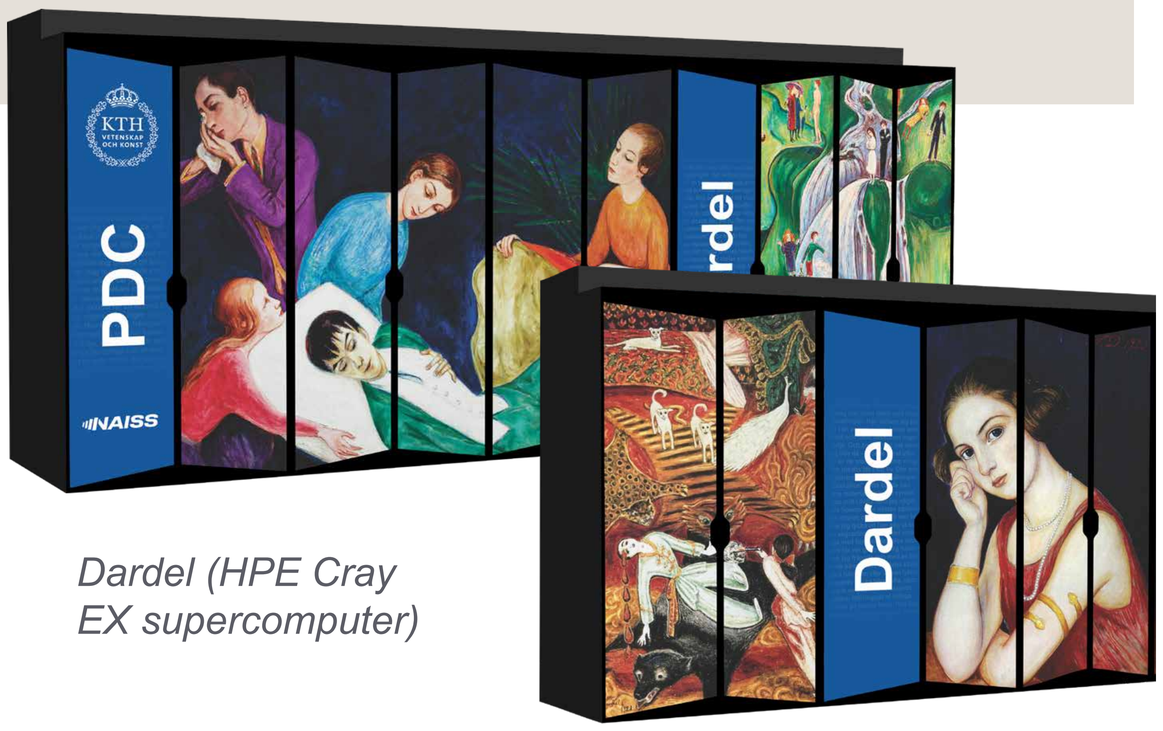
About PDC & HPC research

PDC facilitates research using supercomputers by providing computing resources and expertise and also developing software

Resources for research

- supercomputer systems for large simulations and calculations, including resources for processing data before and after performing computations
- software for simulation and modelling
- storage for large volumes of data
- experts to assist with using computing and storage resources within NAISS
- experts in different research fields to assist with using or scaling software



Dardel (HPE Cray EX supercomputer)

HPC research projects PDC supports

PDC is involved with a range of national and European HPC projects such as

- BioExcel
- CEEC
- Plasma-PEPSC
- EPICURE
- Excellerat
- ePIC
- IO-SEA
- NeIC
- SeRC
- CodeRefinery
- EBRAINS

Operation of PDC

- key associate of NAISS
- receives funding from NAISS, KTH, industry collaboration and a range of (mainly European Commission) projects

Who can use resources at PDC

- Swedish academic researchers may use resources at PDC free of charge via the National Academic Infrastructure for Supercomputing in Sweden (NAISS)
- Swedish and European industrial researchers can use Dardel by direct arrangement with PDC/KTH

How PDC assists research

- develops application software in various key research areas that need to use high-performance computing (HPC) systems as the modelling and simulation problems in those areas are highly complex
- manages (operates, maintains and updates) the research resources at PDC (supercomputers, storage and software)
- assists researchers with queries about using the resources available through NAISS and helps researchers to use specific software or adapt it for HPC use
- participates in research projects to find ways to obtain better performance when using HPC systems and software

Contacting PDC

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