

FASTTRACK: PDP

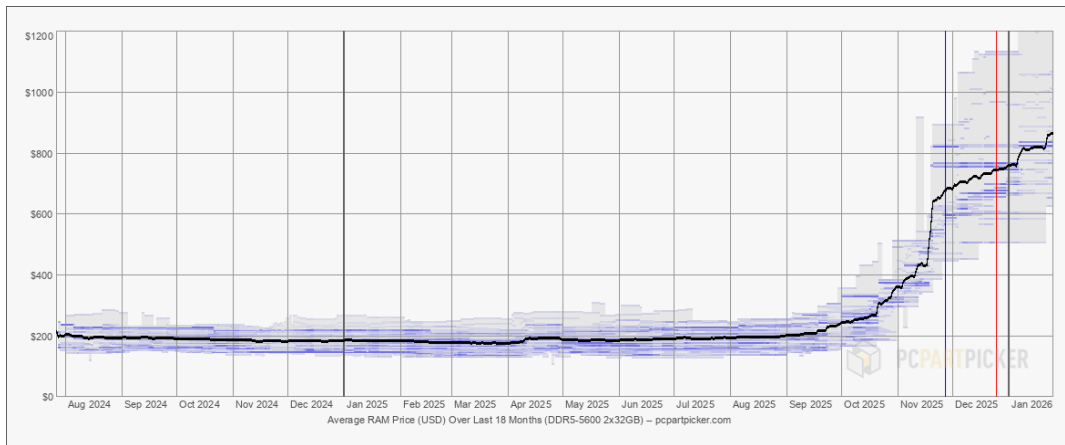
Roel Aaij, David Groep
Nikhef

FASTTRACK WP 5.1 Accelerator Validation Facility

- Intended hardware: 8 servers with accelerators and fast network
- Deliverables: selection and procurement of hardware for the facility
 - Intended phase-1 (Q4 2026)
 - Intended phase-2 (Q4 2030)
- Personpower:
 - CT system engineering technician:
People and knowledge available in house
 - CT software support for the experiments
Neither people nor knowledge available in-house
 - 0.75 FTE/y in total

RAM and SSD Prices

- Memory (RAM) and disk (SSD) prices started to rise at the end of 2025
- AI hyperscalers are buying a large fraction of available capacity
- Affects both server and accelerator cost
- Likely to last well into 2027
- We intend to delay the first phase by 6 months



<https://pcpartpicker.com/trends/price/memory/>

FASTTRACK WP 5.2 Algorithms

Personpower:

- Effort embedded in the experiments on software/algorithm engineering
- needs another 1.2 - 1.5 FTE/y - but not entirely flat (weighted to $\geq 2029/2030$)
- Will depend on the CT and experiments together, but neither people nor knowledge available in-house as yet (and this is *complementary to* and not the same as other ML efforts)