

六ヶ所研計算機について

矢木雅敏

量子科学技術研究開発機構

六ヶ所核融合研究所

13 February:

- Transfer of ownership of Helios remaining parts from F4E to QST
- Start of reconstruction work (SGI Japan)

17 March:

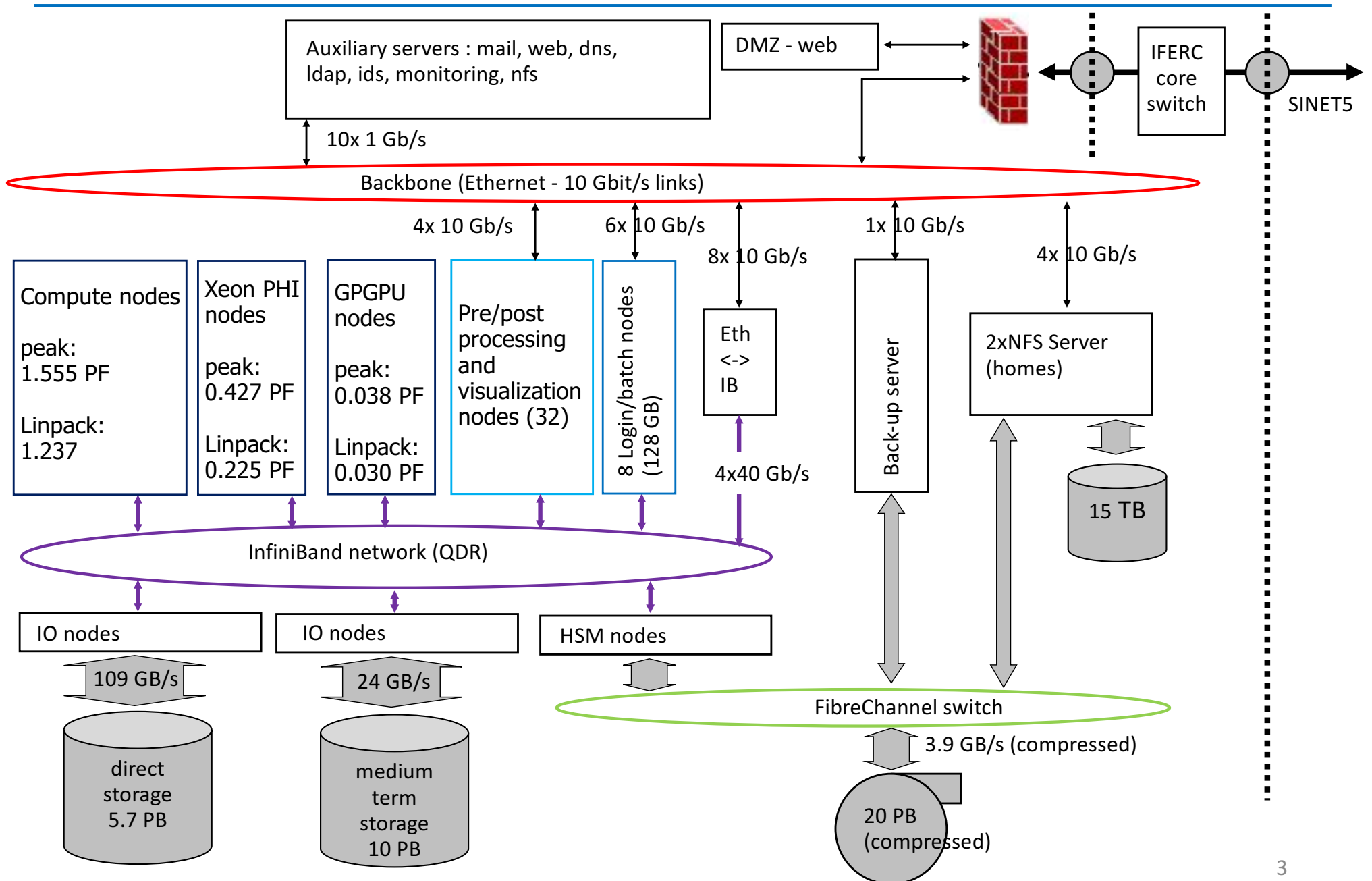
- Acceptance test
- Start of test operation

17 April:

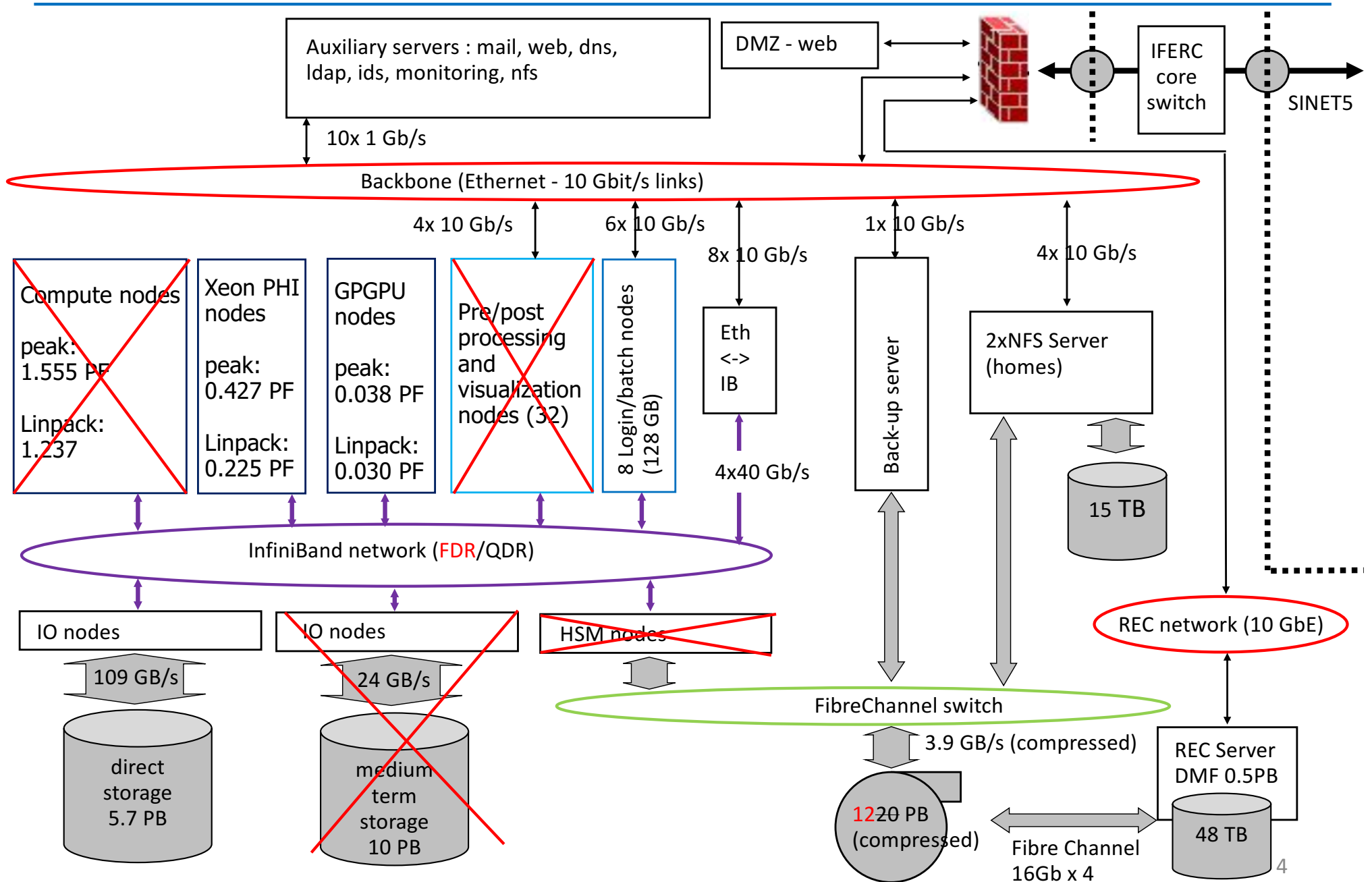
- Start of normal operation

The Helios reconstructed system is named “Selene”.

Configuration of Helios



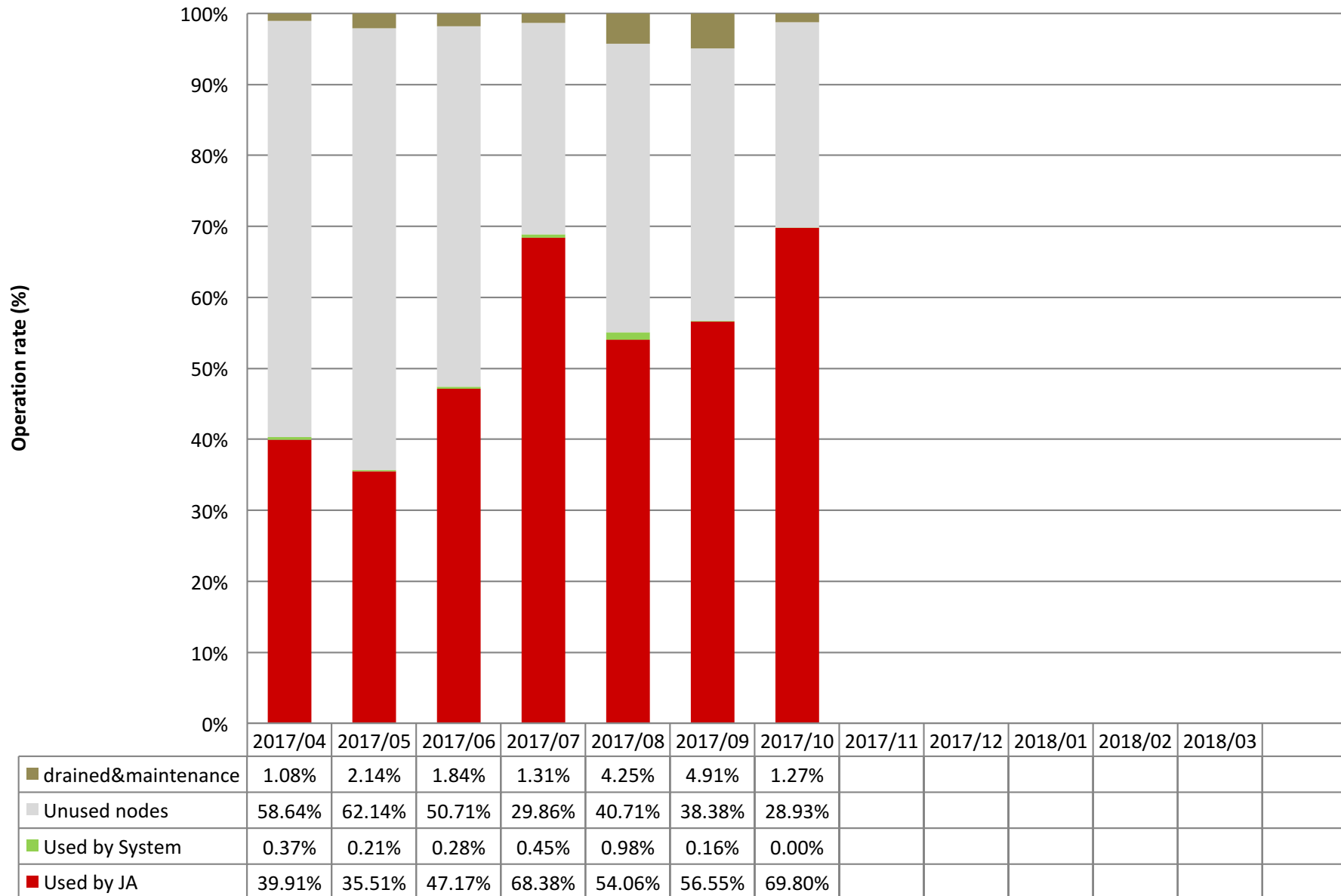
Configuration of Selene



Usage



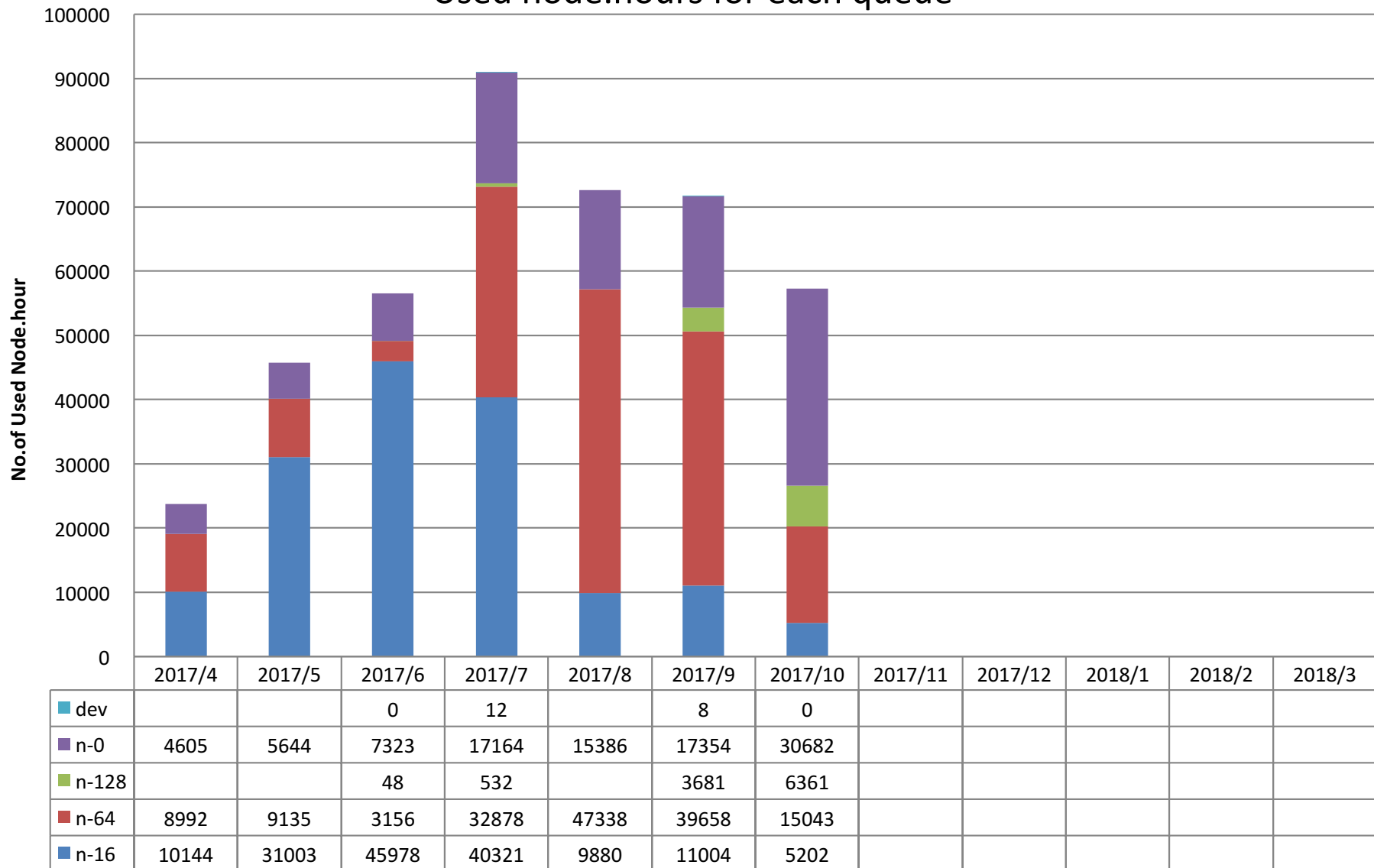
Monthly averaged usage



Usage



Used node.hours for each queue



Procurement plan of future system



10 January 2017:

Notice of request for submission of materials

27 June 2017:

Notice of request for comments

12 October 2017 :

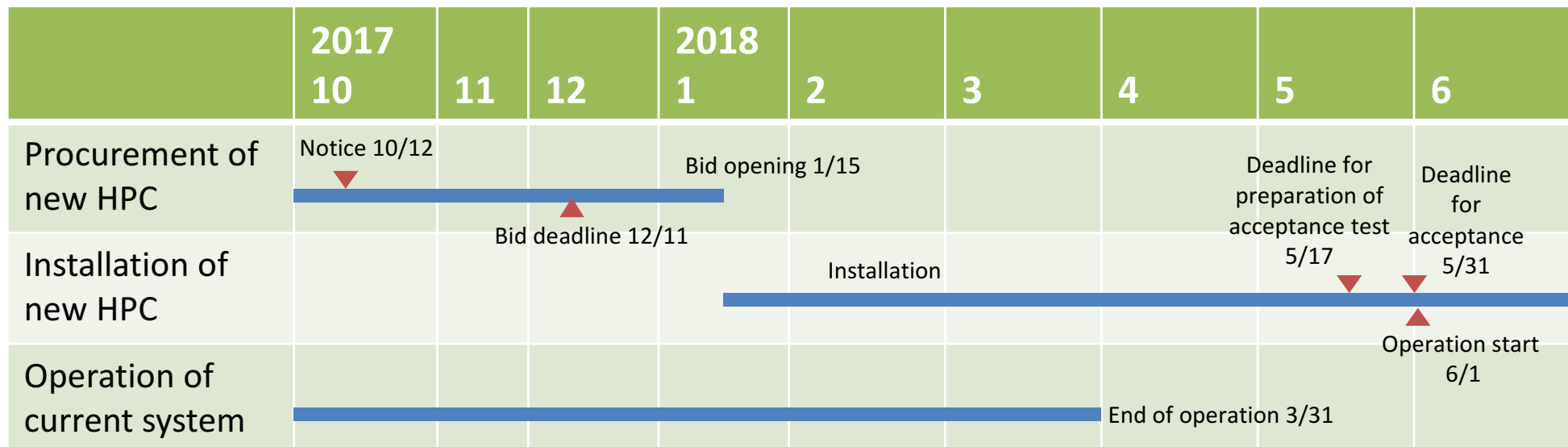
Notice of open bidding procurement

Beginning of 2018:

Bid opening

June 2018:

Operation start of new system



Target of new system



Specification draft

Total CPU power:

≥ 4PFLOPS (helios 1.555PF+0.427PF)

Total memory:

≥ 300TB (helios 288TB+8.64TB)

Total storage:

≥ 22.5PB (helios 15.7PB + 20PB tape)

But prices of main parts are rising, so we will decrease necessary requirements of supercomputer system.

Total CPU power:

≥ 3PFLOPS

Total memory:

≥ 192TB

Total storage:

≥ 15PB

Rough sketch of new system

