- Performance overview April-September 2017

LHCONCRAY: ATLAS REPORT

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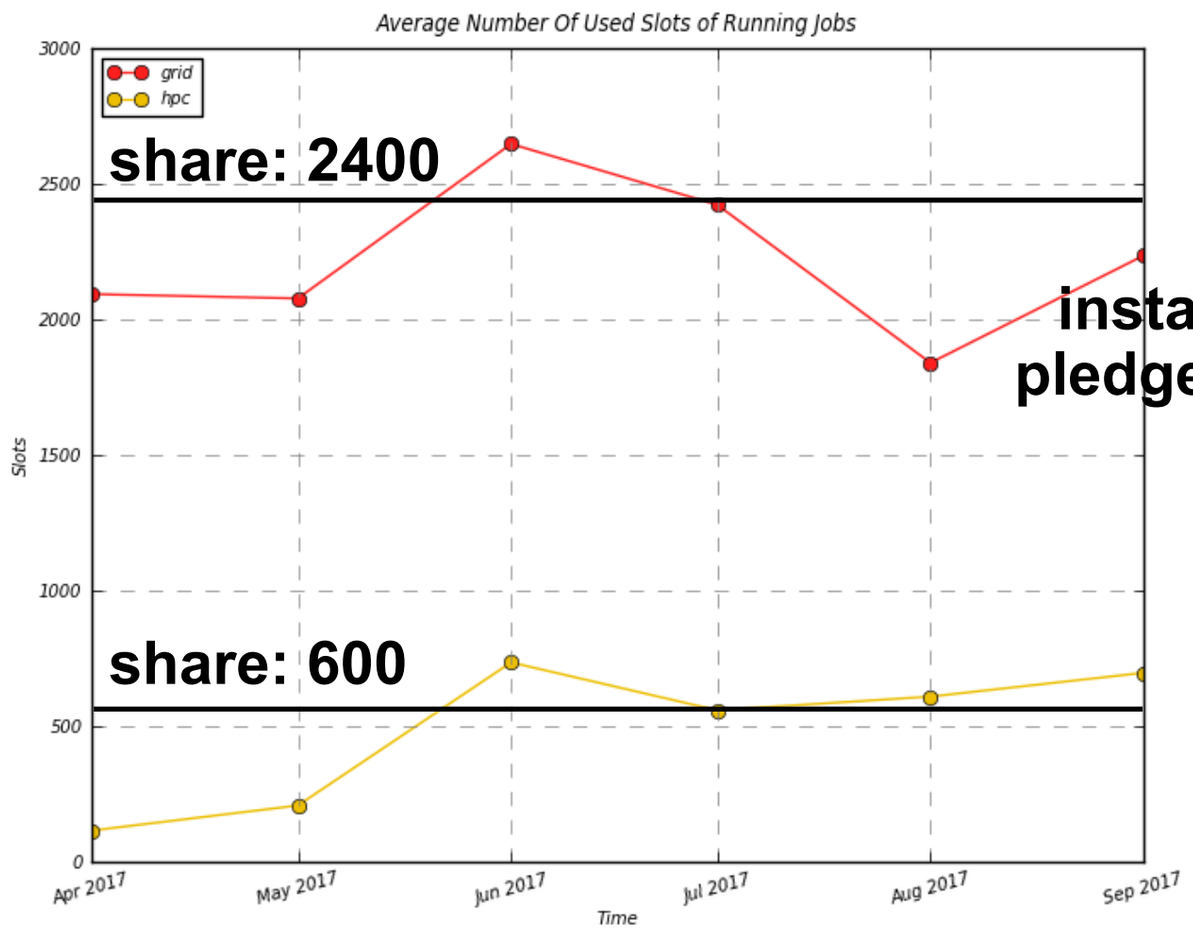
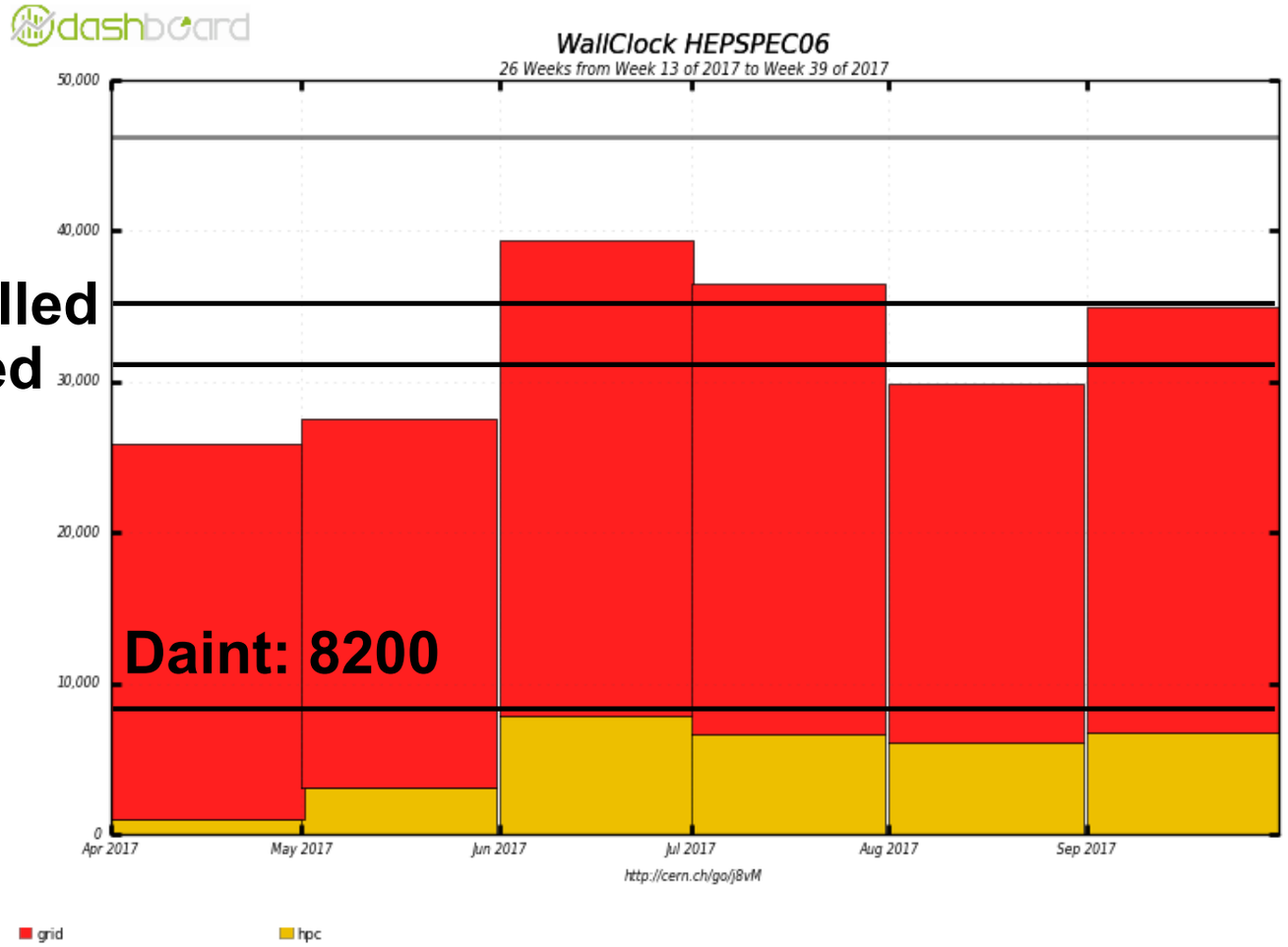
LHCONCRAY: ATLAS USAGE OVERVIEW

Slots, WallClock HS06

- **HS06 installed capacity (all VOs): 88729** - *coefficient 11.364*
- *HS06 ATLAS share:* ***35491***
- *(HS06 ATLAS pledge: 31200)*

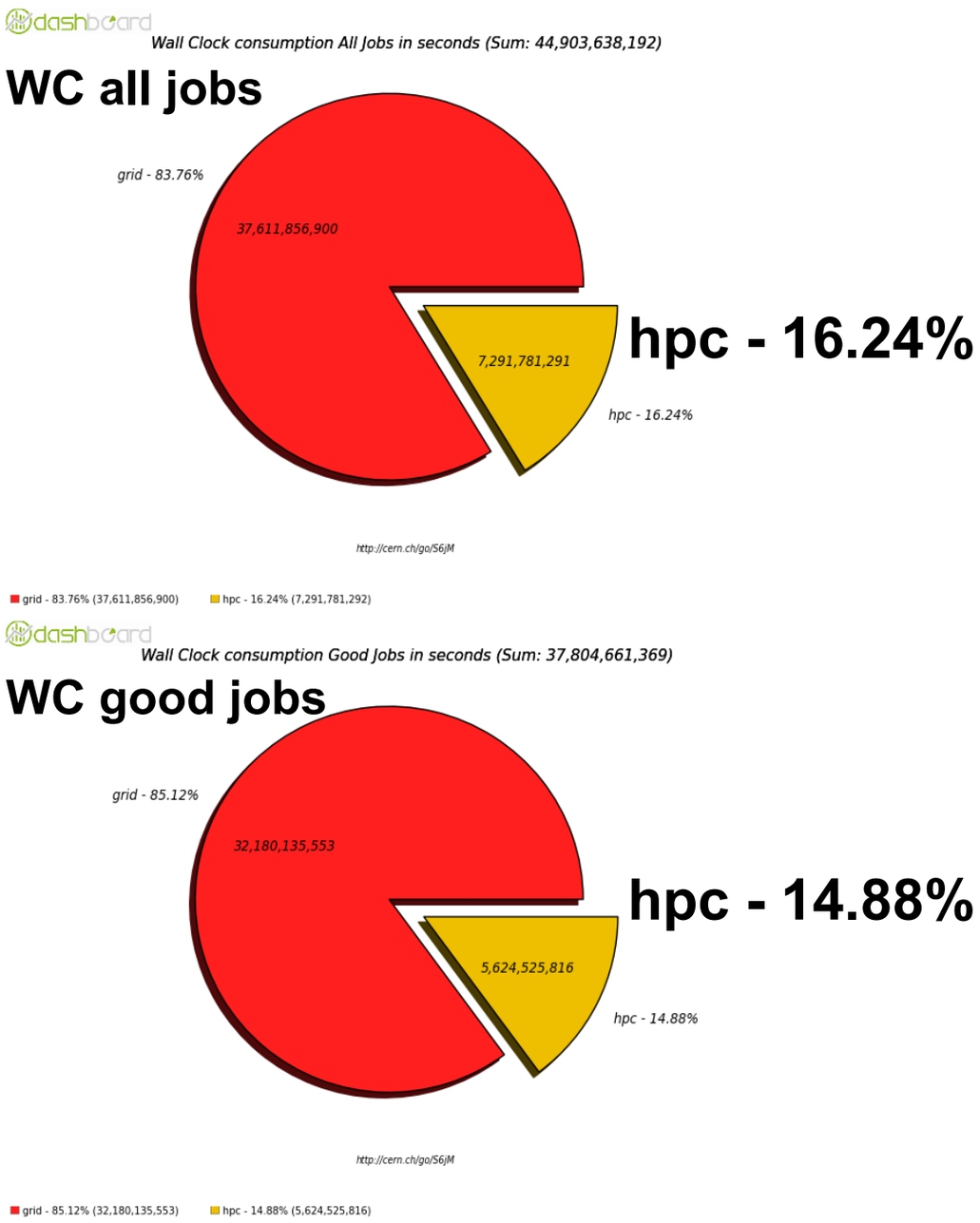


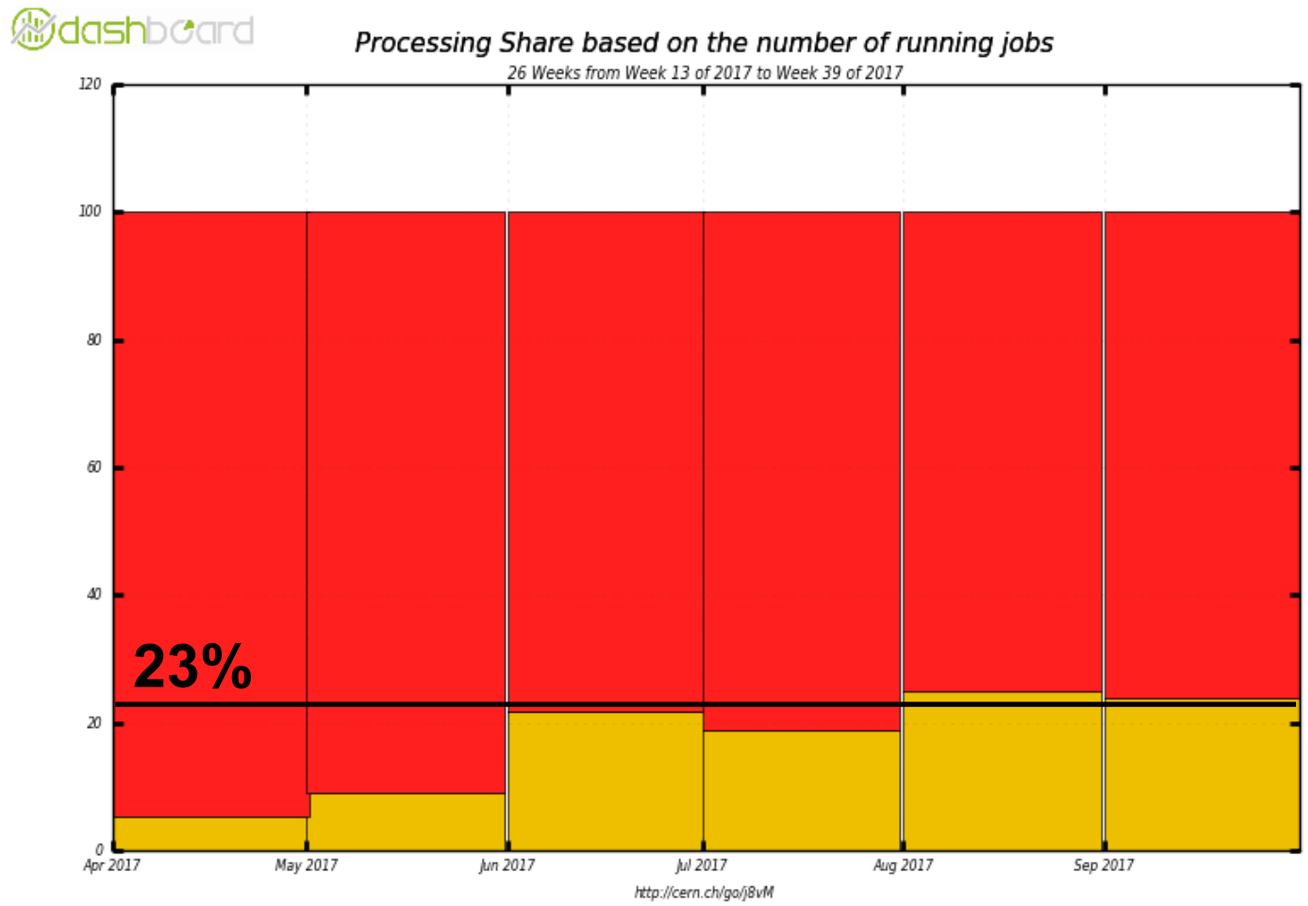


LHCONCRAY: ATLAS USAGE OVERVIEW

Relative shares

- **Piz Daint**: Total: 1600 cores, approx 20500 HS06 - ***23% of the total installed capacity***
- *with 1700 cores, the total HS06 is ~the same*

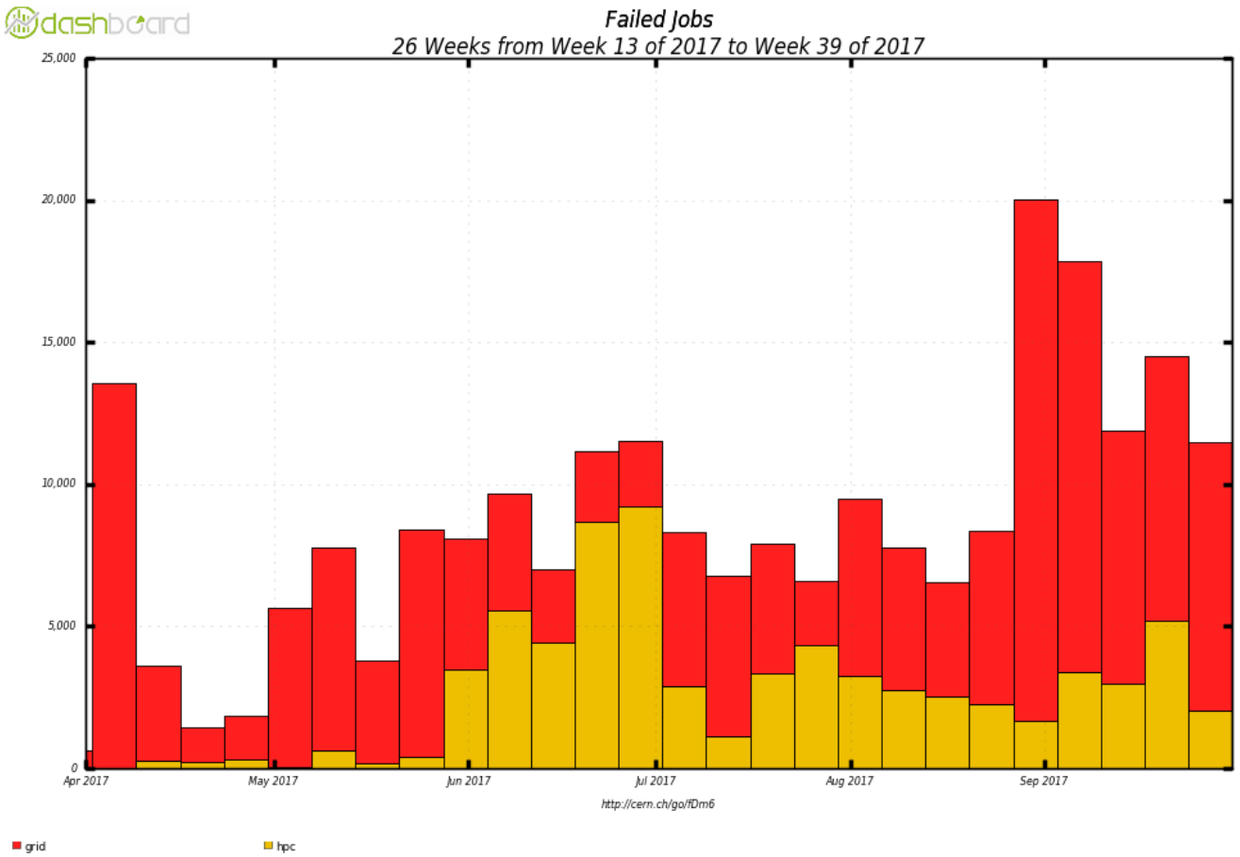


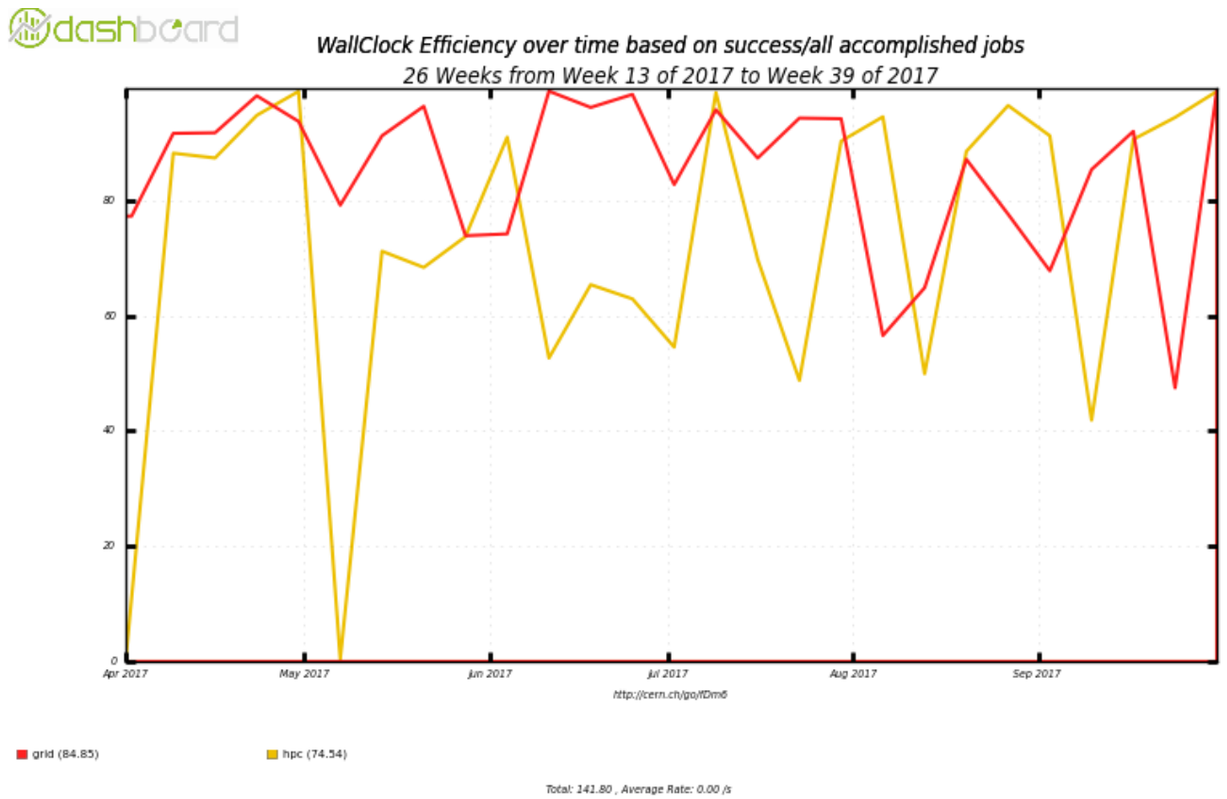


LHConCRAY: ATLAS Usage Overview

Success vs fail WallClock efficiency

- **Piz Daint**: *75%*
- *Phoenix: 85%*

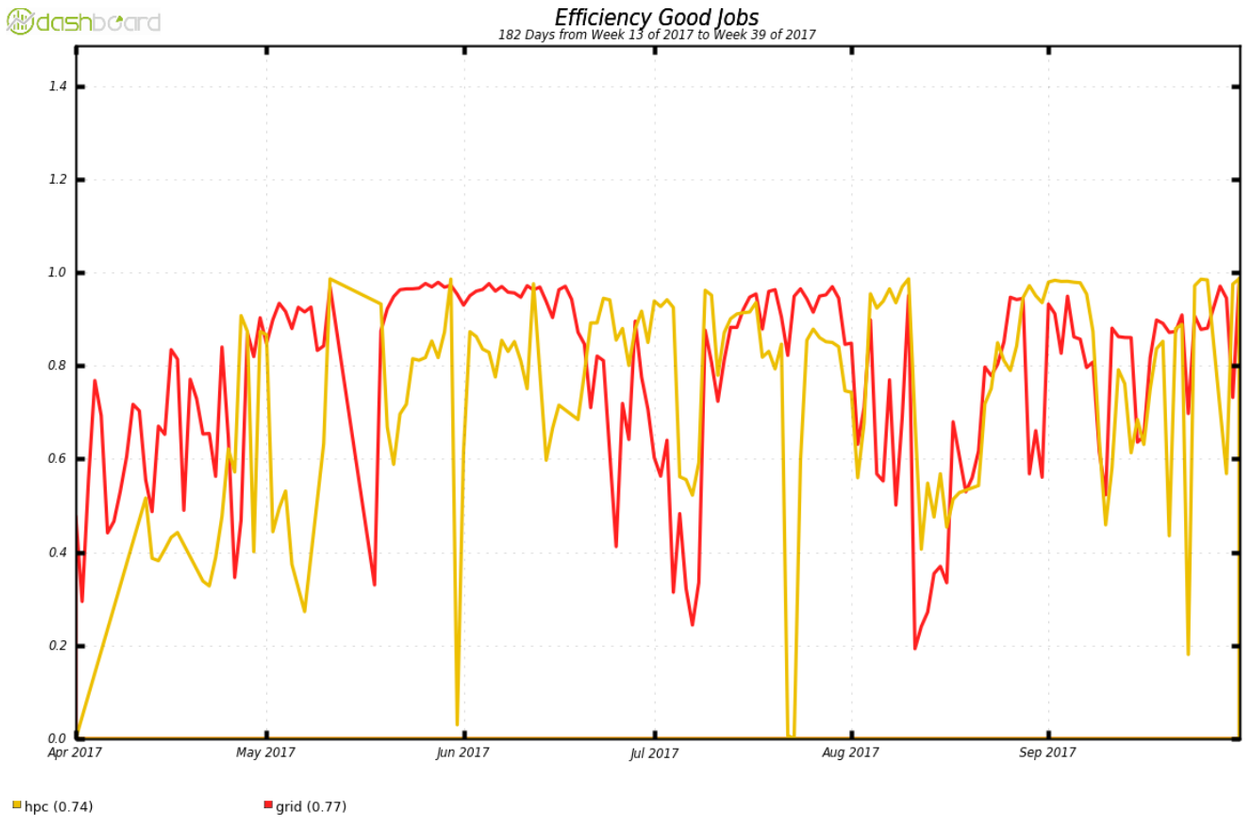




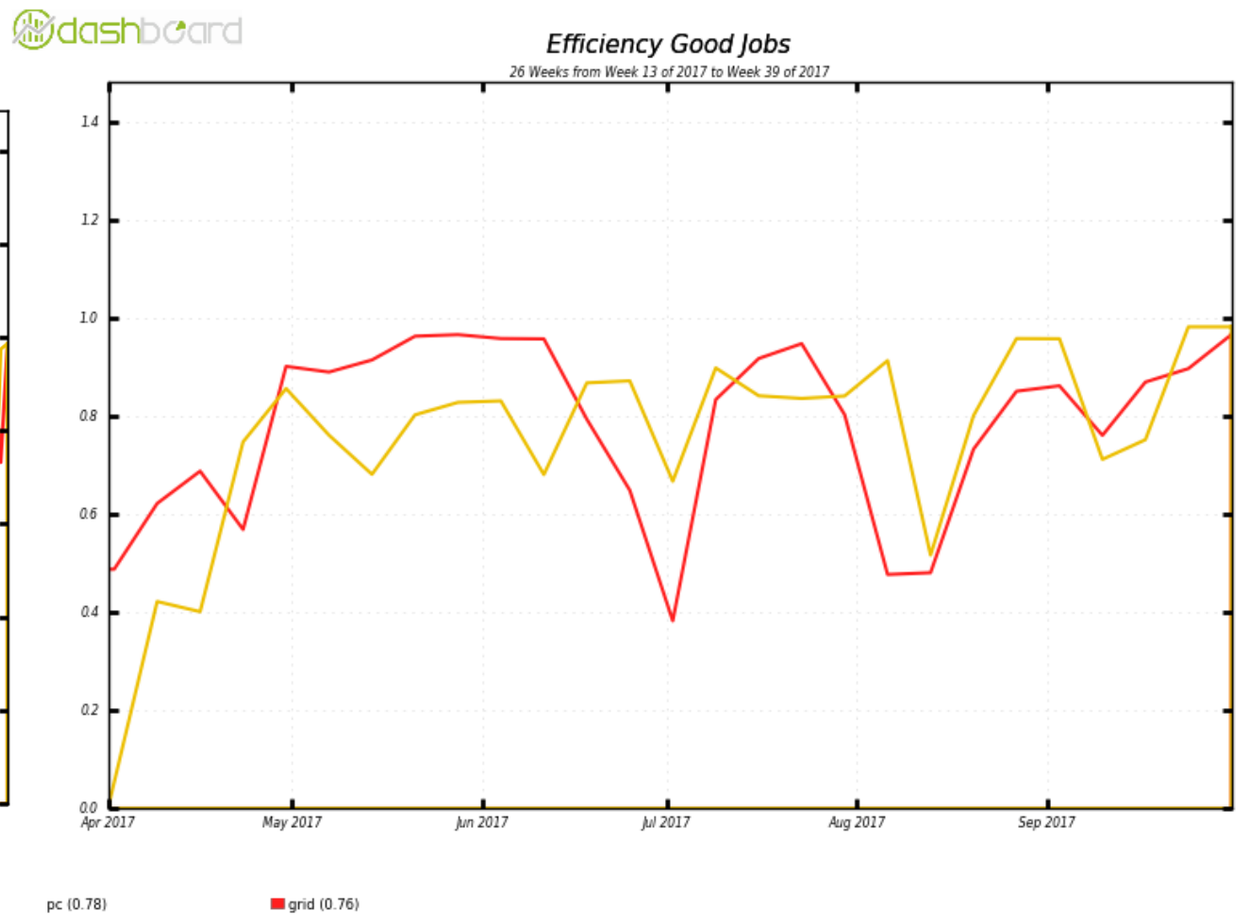
LHCONCRAY: ATLAS USAGE OVERVIEW

CPU / WallClock efficiency

- **Piz Daint**: *74%*
- *Phoenix: 77%*
- ***Correlations in the dips***



daily

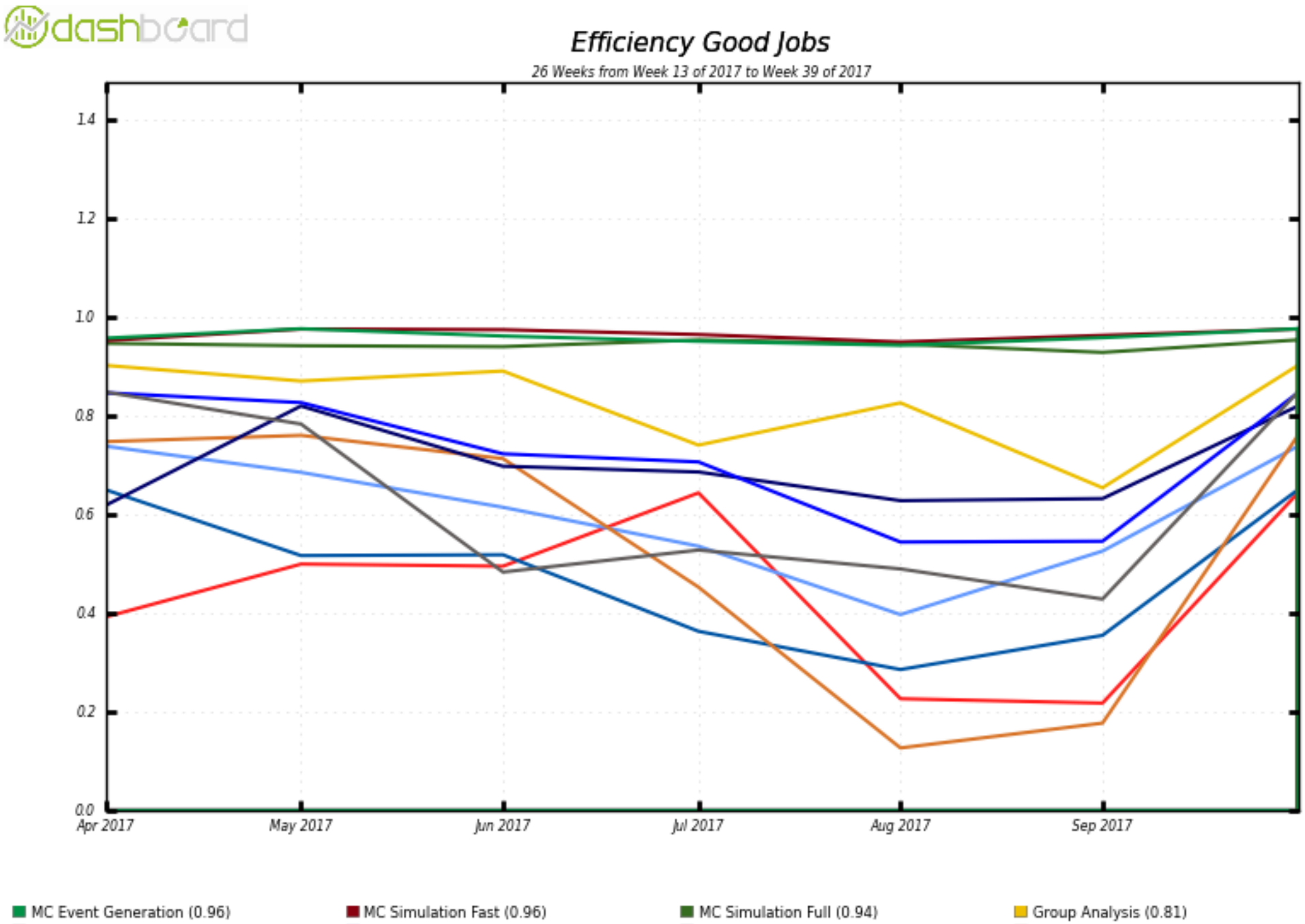


weekly

LHCONCRAY: ATLAS USAGE OVERVIEW

CPU / WallClock efficiency

- **MC evgen and sim do not suffer when the shares FS is under stress**



LHCONCRAY: ATLAS USAGE OVERVIEW

Summary

- **After a slow start, the WC delivery of Piz Daint has come to regime in terms of relative shares**
  - both systems underdeliver with respect to installed capacity
- **Failed WC rate getting slowly better on Piz Daint**
  - continuous up-and-downs
  - however, getting worse on Phoenix
- **CPU / WC efficiency shows a shallow rising slope too for Piz Daint**
  - dips in efficiency show some correlation on both clusters