• Current HPD HEC resources oversubscribed:
  - Over the last 4 years there has been tremendous growth in requests for NASA HEC resources.
  - Overall NASA resources have also increased in response, which grows HPD allocation, but not at same rates.
  - HPD is currently capped at 13% of the SMD total capacity: looking into acquiring extra through purchase.
    - In FY17 HPD had 44.6M SBUs – FY18 similar numbers.
    - Purchasing 12M SBU is ~ $3.5M and must be renewed every 3 years to keep up with technology.
High End Computing (HEC)

- In FY17 (last complete year) HPD had 88 projects with an average allocation of 500k SBUs within a total HPD allocation 44.6M SBUs, but only 23.4M SBUs were used.
- FY18 (to Feb) shows 96 projects with an average size of 454k SBUs for a current HPD (YTD) allocation of 39M SBUs, but only 14.9M SBUs used.
- 11 users with allocations have not used any of 2.8M SBUs (half-way through the FY), and some are repeat offenders.
High End Computing (HEC)

• Other means of managing HEC:
  - Require better estimates of needs vs. desires up-front in each ROSES submission.
  - Enforcement mechanism needed: if resource isn’t used, then time is “wasted” and SBUs are lost.
  - As some missions are also requesting HEC: will need to capture such needs in AOs and SRs.

• Need to start treating HEC allocations like any other limited resource.
  - Have started monthly reporting on usage statistics and identifying earlier under- / non-users.
  - Considering annual process for review and allocation
BACKUP