



# Improving Product Retrieval Speed



- **Current deployment**
  - Changed size of blocks by a factor of 10
  - Increases memory usage at EN, but tests show system still stable
  - Speed improved by a factor of 10
    - Still slower than HTTP or FTP
- **Future deployments**
  - REST-based product server
  - *Streams* product data rather than *retrieval by blocks*
  - Speed increase of more than 30X
    - No additional memory usage at the EN



- **REST = Representational State Transfer**
  - Architectural model for web services
  - Proponents include Paul Prescod
    - One of the inventors of XML
  - Has all the power of SOAP
    - With none of the complexity
- **REST product service for PDS**
  - Hidden entirely within engineering efforts
  - End user clients not affected
- **Node curators affected**
  - Will need to run a web application container (Tomcat, for example)
  - Server manager disappears
    - As well as its risks
    - And its benefits