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IBM

The EPA Database: Data Entry Issues Discussion: Data Duplication and Field Consistency

Agenda

- Certified Body (CB) Submission Package Documents

- Data Entry and Examination of the Documents
  - Duplication
  - Consistency

- Recommendations

Certified Body (CB) Submission Package Documents

- General (one per submission)
  - Certified Body Test Report
  - Declaration of Conformity (DoC)
  - ENERGY STAR XML file

- Per Configuration (Minimum Power, Low-end Performance, Typical, High-end Performance, Maximum Power)
  - EPA Computer Servers Test Reporting Template
  - IBM Test Report
  - SPEC SERT results
  - Renamed SERT result.txt file
  - Raw idle measurements
  - Average idle measurements
  - Pictures (front, back, top)

Data Entry and Examination of the Documents

- Lots of data entered multiple times
  - Time consuming
  - Increases chances of making a mistake

- Majority of data entry is manual
  - SERT picks up some data from servers
    - SUT Discovery not complete for AIX and PowerLinux, but improvements being made
    - Some of the data is discarded
  - Consistency is important
    - Multiple servers from same manufacturer
    - Multiple servers from different manufacturers

- Physical Review of Submission Package

Recommendations

- Eliminate EPA Computer Servers Test Reporting Template
  - Vast majority of data is contained in other documents
    - SERT Report (server hardware/software configuration)
    - Manufacturer Test Report (test equipment information)
  - What's missing, but easily added to another report
    - CPU TDP
    - Power Supply Efficiency and Power Factor or 80+ Rating
    - Cooling Information (e.g., # of fans)

- More Rigidity on SERT Input Fields
  - Data automatically and manually entered via the SERT Test Environment panel should be entered in a specific format for all fields
    - Document in SPEC SERT Result File Fields
    - http://www.spec.org/sert/docs/SERT-Result_File_Fields.html
  - Data should be delimited such that parsing can done via a script and dropped into ENERGY STAR xml file