6/29/06

To: *All Computer Stakeholders*

Subject: *Update on Workstation Data Collection 6/29/06*

This message is being sent to you on behalf of EPA and DOE's ENERGY STAR® program.

Dear ENERGY STAR Computer Partners and Other Interested Stakeholders,

Based on valued feedback from stakeholders, please find attached a revised workstation data collection sheet to be used to assess the feasibility of incorporating a scalable classifier for workstations into the ENERGY STAR Computer Specification (Version 4.0). The following revisions were made in close collaboration with stakeholders:

- Corrected the maximum installable memory column (previously had read minimum installable memory)
- Removed all of the average power readings and the POST/boot readings as the initial data showed that they are not viable proxies for max power
- Changed SPEC apc to SPEC viewperf and added a column to allow for a combined test

All of the above changes were made such that those who provided data previously should be able to copy and paste most of the data from the previously issued data collection sheet without problems. Please note that internal test numbers for comparison are vital to judging this approach.

Specific Requests for Running Tests

SPEC fp rate:
- Run SPEC fp rate with the train workload (this is a compiler optimization routine using a spec compiled binary)
- Set the number of users equal to the number of cores

Notes: Doing so should net a gain of a few percent and eliminate any optimization issues as the optimizations are from SPEC. In addition, there appear to be no observed differences between setting the number of users to the number of logical cores. Thus, please use number of physical cores. Finally, it is not necessary to set iterations greater than 1 to get a representative peak.

SPEC viewperf:
- There are no special instructions for running the SPEC viewperf standalone test.

Combined test (viewperf and fp rate):
- For the combined test, apply all requests noted for fp rate to the combined test except:
  - Set users = (physical cores - 1). This will allow one core for the viewperf test.
  - Set the iterations to a number high enough to ensure the test runs long enough to be running for the entire time (approx. 1/2 hour) of the viewperf test.
  - Viewperf same as above.

Reminder Regarding Timeline:
1) July 10, industry submits missing data. EPA will consult with industry as requested to clarify data needs and identify holes in the data set.
2) Thursday, July 13, 11 am – 1 pm EST EPA will host a second call regarding this scalable classifier. If adequate data has been received, EPA will share its proposed approach for

these products during this call. If adequate data has not been received, EPA will approach these products as described in Draft 2. Please use the following call-in information to join the call:

Domestic call-in number: 866-299-3188
International call-in number: 706-758-1822
Access code: 202-343-9120#

3) Monday, July 17, EPA will distribute an update document to all stakeholders informing them of the Agency's approach for these products
4) Friday, August 4, Industry will share all data regarding workstations to inform the final levels.

EPA appreciates your participation in the revision of the computer specification and looks forward to a productive, collaborative effort over the next few weeks to finalize an approach for workstations.

Please direct all questions specific to this data collection effort and next steps to Katharine Kaplan Osdoba (osdoba.katharine@epa.gov) or Thomas Bolioli at (617) 923-4132 or tbolioli@terranovum.com.