

Recommendation on naming perfSONAR services and tools for the JET community

It is the recommendation of the JET that the JETnets support the following naming convention for the services and tools of perfSONAR that are affected by the lack of protocol selection for v4 or v6:

- That for a given “host name” there is the generic name along with “-v4” and “-v6” variants. That is, “*host*”, “*host-v4*” and “*host-v6*” where the generic, *host*, will use the normal hostname/address resolution
- That all tools log the host name and corresponding address used thus providing clarity for both those instances where one host name can resolve to multiple addresses and for when the generic hostname is used

It is also recommended that the operators of the NGIXes and other exchange points configure their perfSONAR equipment to similarly support these recommendations.

The JET encourages that, to the fullest extent possible, JET members also support these recommendations. The JET also encourages that any aggregation & exchange points the JET members operate likewise configure their perfSONAR equipment to support these recommendations.

Finally the JET encourages its members who are involved in the perfSONAR development community to engage their colleagues with a view towards the implementation of protocol selection flags or other appropriate mechanism as the perfSONAR development community determines as expeditiously as possible.

The rationale for these recommendations includes the following points:

- While OMB requires a generic name, operationally it is highly desirable to be able to select whether IPv4 or IPv6 is used by a particular tool thereby being able to knowingly examine the results, compare v4 vs. v6 performance over the same path, etc. These recommendations enable this
- The preferred solution, that of having a user of the tool have a mechanism for the selection, will take time to implement
- The metadata needs to contain sufficient information to know what was tested. The logging of the host name address pair provides this

It is fully understood that the use of protocol specific names is an interim solution until all applicable perfSONAR tools add a permanent solution to select the protocol desired. It is noted that these names, once in use, will need to remain long after all tools have the selection mechanism installed.

It is noted that the recommendation on the logging of the host name address pair is not an interim.