

Paper 412-2011

Red Hat Enterprise Linux: Optimizing SAS® Deployments

Barry Marson, Red Hat
Douglas Shakshober, Red Hat

ABSTRACT

The significant price/performance benefits of running SAS on Red Hat Enterprise Linux (RHEL) have driven a dramatic increase in the number of SAS deployments on Red Hat Enterprise Linux since the 2010 SAS Global Forum. During this time, engineers from both Red Hat and SAS (along with several platform providers) have produced new SAS-on-RHEL performance benchmark results for both scale-up and scale-out deployments.

In this session, Red Hat senior engineers discuss these results and introduce the new Red Hat Enterprise Linux 6 (RHEL6) features that help improve performance and scalability for both SAS® Foundation and SAS® Grid Manager deployments. They compare various RHEL6-supported file systems (including EXT3/4 and XFS) on large Intel x86_64 systems, with results on both bare-metal and virtualized environments. They also present best practices for running SAS on RHEL, taking advantage of transparent hugepages, Red Hat Enterprise Virtualization, Non-Uniform Memory Access (NUMA), file systems, and in-memory data caching.

No paper was submitted for publication.

CONTACT INFORMATION

Barry Marson
Red Hat
bmarson@redhat.com

Douglas Shakshober
Red Hat
dshaks@redhat.com

SAS and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration.

Other brand and product names are trademarks of their respective companies.