

Install perfSONAR-PS PingER

Install pingER

```
$ sudo yum install perl-perfSONAR_PS-Pinger-server.noarch
Loaded plugins: rhnplugin
Setting up Install Process
Resolving Dependencies
--> Running transaction check
--> Package perl-perfSONAR_PS-Pinger-server.noarch 0:3.1-11.pSPS set to be updated
--> Processing Dependency: perl(aliased) >= 0 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(XML::LibXML) >= 1.62 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Carp::Clan) >= 0.41 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Log::Log4perl) >= 1 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(version) >= 0.5 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(DateTime) >= 0.41 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(DateTime::Format::Builder) >= 0.7901 for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(XML::LibXML) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(version) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Data::UUID) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: mysql-server for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Date::Manip) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Date::Parse) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Config::General) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Text::CSV_XS) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl-DBD-MySQL for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Readonly) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Error::Simple) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(aliased) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: libdbi-dbd-mysql for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Class::Accessor) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Term::ReadKey) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Log::Log4perl) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(IO::Interface) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Class::Fields) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(NetAddr::IP) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Regexp::Common) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Statistics::Descriptive) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Hash::Merge) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(DBI) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Error) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Module::Load) for package: perl-perfSONAR_PS-Pinger-server
--> Processing Dependency: perl(Params::Validate) for package: perl-perfSONAR_PS-Pinger-server
--> Running transaction check
--> Package libdbi-dbd-mysql.i386 0:0.8.1a-1.2.2 set to be updated
--> Processing Dependency: libdbi-drivers = 0.8.1a-1.2.2 for package: libdbi-dbd-mysql
--> Processing Dependency: mysql for package: libdbi-dbd-mysql
--> Processing Dependency: libmysqlclient.so.15 for package: libdbi-dbd-mysql
--> Processing Dependency: libmysqlclient.so.15(libmysqlclient_15) for package: libdbi-dbd-mysql
--> Package mysql-server.i386 0:5.0.77-4.el5_4.1 set to be updated
--> Package perl-Carp-Clan.noarch 0:6.04-1.el5.rf set to be updated
--> Package perl-Class-Accessor.noarch 0:0.34-1.el5.rf set to be updated
--> Package perl-Class-Fields.noarch 0:0.203-1.pSPS set to be updated
--> Processing Dependency: perl(Carp::Assert) for package: perl-Class-Fields
--> Package perl-Config-General.noarch 0:2.44-1.el5.rf set to be updated
--> Package perl-DBD-mysql.i386 0:4.013-1.el5.rf set to be updated
--> Package perl-DBI.i386 0:1.609-1.el5.rf set to be updated
--> Processing Dependency: perl(RPC::PlClient) >= 0.2000 for package: perl-DBI
--> Processing Dependency: perl(RPC::PlServer) >= 0.2001 for package: perl-DBI
--> Package perl-Data-UUID.i386 0:1.203-1.el5.rf set to be updated
--> Package perl-Date-Manip.noarch 0:5.54-2.el5.rf set to be updated
--> Package perl-DateTime.i386 0:0.4305-1.el5.rf set to be updated
--> Processing Dependency: perl(DateTime::TimeZone) >= 0.59 for package: perl-DateTime
--> Processing Dependency: perl(DateTime::Locale) >= 0.40 for package: perl-DateTime
--> Processing Dependency: perl(DateTime::TimeZone) for package: perl-DateTime
--> Package perl-DateTime-Format-Builder.noarch 0:0.7901-1.el5.rf set to be updated
```

```

--> Processing Dependency: perl(Class::Factory::Util) for package: perl-DateTime-Format-Builder
--> Processing Dependency: perl(DateTime::Format::Mail) for package: perl-DateTime-Format-Builder
--> Processing Dependency: perl(DateTime::Format::HTTP) for package: perl-DateTime-Format-Builder
--> Processing Dependency: perl(DateTime::Format::IBeat) for package: perl-DateTime-Format-Builder
--> Package perl-Error.noarch 0:0.17016-1.el5.rf set to be updated
--> Package perl-Hash-Merge.noarch 0:0.11-1.pSPS set to be updated
--> Processing Dependency: perl(Clone) for package: perl-Hash-Merge
--> Package perl-IO-Interface.i386 0:1.05-1.el5.rf set to be updated
--> Package perl-Log-Log4perl.noarch 0:1.26-1.el5.rf set to be updated
--> Package perl-Module-Load.noarch 0:0.16-1.el5.rf set to be updated
--> Package perl-NetAddr-IP.i386 0:4.027-1.pSPS set to be updated
--> Package perl-Params-Validate.i386 0:0.91-1.el5.rf set to be updated
--> Package perl-Readonly.noarch 0:1.03-1.2.el5.rf set to be updated
--> Package perl-Regexp-Common.noarch 0:2010010201-1.el5.rf set to be updated
--> Package perl-Statistics-Descriptive.noarch 0:3.0.100-1.el5.rf set to be updated
--> Package perl-TermReadKey.i386 0:2.30-3.el5.rf set to be updated
--> Package perl-Text-CSV_XS.i386 0:0.67-1.el5.rf set to be updated
--> Package perl-TimeDate.noarch 1:1.16-5.el5 set to be updated
--> Package perl-XML-LibXML.i386 0:1.69-2.pSPS set to be updated
--> Processing Dependency: perl(XML::NamespaceSupport) >= 1.07 for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::SAX) >= 0.11 for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::LibXML::Common) >= 0.13 for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::SAX::Exception) for package: perl-XML-LibXML
--> Processing Dependency: libxml2-devel for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::LibXML::Common) for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::SAX::DocumentLocator) for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::SAX::Base) for package: perl-XML-LibXML
--> Processing Dependency: perl(XML::NamespaceSupport) for package: perl-XML-LibXML
--> Package perl-aliased.noarch 0:0.30-1.el5.rf set to be updated
--> Package perl-version.i386 0:0.76-1.el5.rf set to be updated
--> Running transaction check
--> Package libdbi-drivers.i386 0:0.8.1a-1.2.2 set to be updated
--> Processing Dependency: libdbi >= 0.8 for package: libdbi-drivers
--> Package libxml2-devel.i386 0:2.6.26-2.1.2.8 set to be updated
--> Processing Dependency: zlib-devel for package: libxml2-devel
--> Package mysql.i386 0:5.0.77-4.el5_4.1 set to be updated
--> Package perl-Carp-Assert.noarch 0:0.20-1.el5.rf set to be updated
--> Package perl-Class-Factory-Util.noarch 0:1.7-1.el5.rf set to be updated
--> Package perl-Clone.i386 0:0.31-1.el5.rf set to be updated
--> Package perl-DateTime-Format-HTTP.noarch 0:0.38-1.el5.rf set to be updated
--> Package perl-DateTime-Format-IBeat.noarch 0:0.161-1.el5.rf set to be updated
--> Package perl-DateTime-Format-Mail.noarch 0:0.3001-1.el5.rf set to be updated
--> Package perl-DateTime-Locale.noarch 0:0.4001-1.el5.rf set to be updated
--> Processing Dependency: perl(List::MoreUtils) for package: perl-DateTime-Locale
--> Package perl-DateTime-TimeZone.i386 0:0.46-1.el5.rf set to be updated
--> Processing Dependency: perl(Class::Singleton) for package: perl-DateTime-TimeZone
--> Package perl-PlRPC.noarch 0:0.2020-1.el5.rf set to be updated
--> Processing Dependency: perl(Net::Daemon) for package: perl-PlRPC
--> Processing Dependency: perl(Net::Daemon::Log) for package: perl-PlRPC
--> Processing Dependency: perl(Net::Daemon::Test) for package: perl-PlRPC
--> Package perl-XML-LibXML-Common.i386 0:0.13-8.2.2 set to be updated
--> Package perl-XML-NamespacesSupport.noarch 0:1.10-1.el5.rf set to be updated
--> Package perl-XML-SAX.noarch 0:0.96-1.el5.rf set to be updated
--> Running transaction check
--> Package libdbi.i386 0:0.8.1-2.1 set to be updated
--> Package perl-Class-Singleton.i386 0:1.03-1.2.el5.rf set to be updated
--> Package perl-List-MoreUtils.i386 0:0.25.1-1.el5.rf set to be updated
--> Package perl-Net-Daemon.noarch 0:0.43-1.el5.rf set to be updated
--> Package zlib-devel.i386 0:1.2.3-3 set to be updated
--> Finished Dependency Resolution

```

Dependencies Resolved

```

=====
Package                               Arch
Version                               Repository                               Size
=====
Installing:
perl-perfSONAR_PS-PingER-server       noarch                                  3.1-11.

```

pSPS	Internet2	242 k
Installing for dependencies:		
libdbi	i386	0.8.1-
2.1	rhel-i386-client-5	35 k
libdbi-dbd-mysql	i386	0.8.1a-
1.2.2	rhel-i386-client-5	17 k
libdbi-drivers	i386	0.8.1a-
1.2.2	rhel-i386-client-5	14 k
libxml2-devel	i386	2.6.26-
2.1.2.8	rhel-i386-client-workstation-5	2.1 M
mysql	i386	5.0.77-4.el5_4.
1	rhel-i386-client-5	4.8 M
mysql-server	i386	5.0.77-4.el5_4.
1	rhel-i386-client-workstation-5	9.8 M
perl-Carp-Assert	noarch	0.20-1.el5.
rf	rpmforge	18 k
perl-Carp-Clan	noarch	6.04-1.el5.
rf	rpmforge	14 k
perl-Class-Accessor	noarch	0.34-1.el5.
rf	rpmforge	26 k
perl-Class-Factory-Util	noarch	1.7-1.el5.
rf	rpmforge	7.5 k
perl-Class-Fields	noarch	0.203-1.
pSPS	Internet2	38 k
perl-Class-Singleton	i386	1.03-1.2.el5.
rf	rpmforge	14 k
perl-Clone	i386	0.31-1.el5.
rf	rpmforge	34 k
perl-Config-General	noarch	2.44-1.el5.
rf	rpmforge	67 k
perl-DBD-mysql	i386	4.013-1.el5.
rf	rpmforge	224 k
perl-DBI	i386	1.609-1.el5.
rf	rpmforge	865 k
perl-Data-UUID	i386	1.203-1.el5.
rf	rpmforge	49 k
perl-Date-Manip	noarch	5.54-2.el5.
rf	rpmforge	210 k
perl-DateTime	i386	0.4305-1.el5.
rf	rpmforge	134 k
perl-DateTime-Format-Builder	noarch	0.7901-1.el5.
rf	rpmforge	83 k
perl-DateTime-Format-HTTP	noarch	0.38-1.el5.
rf	rpmforge	13 k
perl-DateTime-Format-IBeat	noarch	0.161-1.el5.
rf	rpmforge	20 k
perl-DateTime-Format-Mail	noarch	0.3001-1.el5.
rf	rpmforge	25 k
perl-DateTime-Locale	noarch	0.4001-1.el5.
rf	rpmforge	1.7 M
perl-DateTime-TimeZone	i386	0.46-1.el5.
rf	rpmforge	361 k
perl-Error	noarch	0.17016-1.el5.
rf	rpmforge	28 k
perl-Hash-Merge	noarch	0.11-1.
pSPS	Internet2	15 k
perl-IO-Interface	i386	1.05-1.el5.
rf	rpmforge	51 k
perl-List-MoreUtils	i386	0.25.1-1.el5.
rf	rpmforge	104 k
perl-Log-Log4perl	noarch	1.26-1.el5.
rf	rpmforge	406 k
perl-Module-Load	noarch	0.16-1.el5.
rf	rpmforge	10 k
perl-Net-Daemon	noarch	0.43-1.el5.
rf	rpmforge	44 k
perl-NetAddr-IP	i386	4.027-1.
pSPS	Internet2	123 k
perl-Params-Validate	i386	0.91-1.el5.
rf	rpmforge	104 k
perl-PlRPC	noarch	0.2020-1.el5.

rf	rpmforge		33 k
perl-Readonly		noarch	1.03-1.2.el5.
rf	rpmforge		19 k
perl-Regexp-Common		noarch	2010010201-1.el5.
rf	rpmforge		165 k
perl-Statistics-Descriptive		noarch	3.0.100-1.el5.
rf	rpmforge		24 k
perl-TermReadKey		i386	2.30-3.el5.
rf	rpmforge		55 k
perl-Text-CSV_XS		i386	0.67-1.el5.
rf	rpmforge		90 k
perl-TimeDate		noarch	1:1.16-5.
el5	rhel-i386-client-5		32 k
perl-XML-LibXML		i386	1.69-2.
pSPS	Internet2		501 k
perl-XML-LibXML-Common		i386	0.13-
8.2.2	rhel-i386-client-5		16 k
perl-XML-Namespacesupport		noarch	1.10-1.el5.
rf	rpmforge		16 k
perl-XML-SAX		noarch	0.96-1.el5.
rf	rpmforge		79 k
perl-aliased		noarch	0.30-1.el5.
rf	rpmforge		12 k
perl-version		i386	0.76-1.el5.
rf	rpmforge		79 k
zlib-devel		i386	1.2.3-
3	rhel-i386-client-workstation-5		100 k

Transaction Summary

```
=====
=====
```

```
Install      49 Package(s)
Update       0 Package(s)
Remove       0 Package(s)
```

Total download size: 23 M

Is this ok [y/N]: y

Downloading Packages:

```
(1/49): perl-Class-Factory-Util-1.7-1.el5.rf.noarch.rpm
(2/49): perl-Module-Load-0.16-1.el5.rf.noarch.rpm
(3/49): perl-aliased-0.30-1.el5.rf.noarch.rpm
(4/49): perl-DateTime-Format-HTTP-0.38-1.el5.rf.noarch.rpm
(5/49): libdbi-drivers-0.8.1a-1.2.2.i386.rpm
(6/49): perl-Class-Singleton-1.03-1.2.el5.rf.i386.rpm
(7/49): perl-Carp-Clan-6.04-1.el5.rf.noarch.rpm
(8/49): perl-Hash-Merge-0.11-1.pSPS.noarch.rpm
(9/49): perl-XML-LibXML-Common-0.13-8.2.2.i386.rpm
(10/49): perl-XML-Namespacesupport-1.10-1.el5.rf.noarch.rpm
(11/49): libdbi-dbd-mysql-0.8.1a-1.2.2.i386.rpm
(12/49): perl-Carp-Assert-0.20-1.el5.rf.noarch.rpm
(13/49): perl-Readonly-1.03-1.2.el5.rf.noarch.rpm
(14/49): perl-DateTime-Format-IBeat-0.161-1.el5.rf.noarch.rpm
(15/49): perl-Statistics-Descriptive-3.0.100-1.el5.rf.noarch.rpm
(16/49): perl-DateTime-Format-Mail-0.3001-1.el5.rf.noarch.rpm
(17/49): perl-Class-Accessor-0.34-1.el5.rf.noarch.rpm
(18/49): perl-Error-0.17016-1.el5.rf.noarch.rpm
(19/49): perl-TimeDate-1.16-5.el5.noarch.rpm
(20/49): perl-PlRPC-0.2020-1.el5.rf.noarch.rpm
(21/49): perl-Clone-0.31-1.el5.rf.i386.rpm
(22/49): libdbi-0.8.1-2.1.i386.rpm
(23/49): perl-Class-Fields-0.203-1.pSPS.noarch.rpm
(24/49): perl-Net-Daemon-0.43-1.el5.rf.noarch.rpm
(25/49): perl-Data-UUID-1.203-1.el5.rf.i386.rpm
(26/49): perl-IO-Interface-1.05-1.el5.rf.i386.rpm
(27/49): perl-TermReadKey-2.30-3.el5.rf.i386.rpm
(28/49): perl-Config-General-2.44-1.el5.rf.noarch.rpm
(29/49): perl-XML-SAX-0.96-1.el5.rf.noarch.rpm
(30/49): perl-version-0.76-1.el5.rf.i386.rpm
(31/49): perl-DateTime-Format-Builder-0.7901-1.el5.rf.noarch.rpm
(32/49): perl-Text-CSV_XS-0.67-1.el5.rf.i386.rpm
(33/49): zlib-devel-1.2.3-3.i386.rpm
```

(34/49): perl-Params-Validate-0.91-1.el5.rf.i386.rpm
(35/49): perl-List-MoreUtils-0.25.1-1.el5.rf.i386.rpm
(36/49): perl-NetAddr-IP-4.027-1.pSPS.i386.rpm
(37/49): perl-DateTime-0.4305-1.el5.rf.i386.rpm
(38/49): perl-Regexp-Common-2010010201-1.el5.rf.noarch.rpm
(39/49): perl-Date-Manip-5.54-2.el5.rf.noarch.rpm
(40/49): perl-DBD-mysql-4.013-1.el5.rf.i386.rpm
(41/49): perl-perfSONAR_PS-Pinger-server-3.1-11.pSPS.noarch.rpm
(42/49): perl-DateTime-TimeZone-0.46-1.el5.rf.i386.rpm
(43/49): perl-Log-Log4perl-1.26-1.el5.rf.noarch.rpm
(44/49): perl-XML-LibXML-1.69-2.pSPS.i386.rpm
(45/49): perl-DBI-1.609-1.el5.rf.i386.rpm
(46/49): perl-DateTime-Locale-0.4001-1.el5.rf.noarch.rpm
(47/49): libxml2-devel-2.6.26-2.1.2.8.i386.rpm
(48/49): mysql-5.0.77-4.el5_4.1.i386.rpm
(49/49): mysql-server-5.0.77-4.el5_4

Total 965 kB/s | 23 MB 00:24

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Installing	: perl-XML-Namespacesupport	1/49
Installing	: perl-XML-SAX	2/49
Installing	: perl-Class-Factory-Util	3/49
Installing	: perl-Carp-Assert	4/49
Installing	: perl-Class-Fields	5/49
Installing	: perl-Data-UUID	6/49
Installing	: perl-Net-Daemon	7/49
Installing	: perl-PlRPC	8/49
Installing	: perl-Statistics-Descriptive	9/49
Installing	: perl-Date-Manip	10/49
Installing	: perl-Config-General	11/49
Installing	: perl-TimeDate	12/49
Installing	: perl-Error	13/49
Installing	: perl-Module-Load	14/49
Installing	: perl-Regexp-Common	15/49
Installing	: perl-Readonly	16/49
Installing	: perl-Log-Log4perl	17/49
Installing	: perl-Class-Accessor	18/49
Installing	: perl-Class-Singleton	19/49
Installing	: zlib-devel	20/49
Installing	: libxml2-devel	21/49
Installing	: perl-Carp-Clan	22/49
Installing	: perl-aliased	23/49
Installing	: perl-Params-Validate	24/49
Installing	: perl-DBI	25/49
Installing	: mysql	26/49
Installing	: perl-List-MoreUtils	27/49
Installing	: perl-TermReadKey	28/49
Installing	: perl-NetAddr-IP	29/49

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/auto/NetAddr/IP/Util' to `/usr/lib/perl5/i386-linux-thread-multi/auto/NetAddr/IP/Util': File exists

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/auto/NetAddr/IP/UtilPP' to `/usr/lib/perl5/i386-linux-thread-multi/auto/NetAddr/IP/UtilPP': File exists

Installing	: perl-version	30/49
Installing	: libdbi	31/49
Installing	: perl-IO-Interface	32/49
Installing	: perl-XML-LibXML-Common	33/49
Installing	: perl-XML-LibXML	34/49

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/XML/LibXML' to `/usr/lib/perl5/i386-linux-thread-multi/XML/LibXML': File exists

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/XML/LibXML/SAX/Builder.pm' to `/usr/lib/perl5/i386-linux-thread-multi/XML/LibXML/SAX/Builder.pm': File exists

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/XML/LibXML/SAX/Builder.pod' to `/usr/lib/perl5/i386-linux-thread-multi/XML/LibXML/SAX/Builder.pod': File exists

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/XML/LibXML/SAX/Generator.pm' to `/usr/lib/perl5/i386-linux-thread-multi/XML/LibXML/SAX/Generator.pm': File exists

ln: creating symbolic link `/usr/lib/perl5/vendor_perl/5.8.8/i386-linux-thread-multi/XML/LibXML/SAX/Parser.pm' to `/usr/lib/perl5/i386-linux-thread-multi/XML/LibXML/SAX/Parser.pm': File exists

Installing	: perl-Text-CSV_XS	35/49
Installing	: perl-Clone	36/49
Installing	: perl-DBD-mysql	37/49
Installing	: perl-Hash-Merge	38/49
Installing	: libdbi-drivers	39/49
Installing	: perl-DateTime-Locale	40/49
Installing	: libdbi-dbd-mysql	41/49
Installing	: mysql-server	42/49
Installing	: perl-DateTime-TimeZone	43/49
Installing	: perl-DateTime	44/49
Installing	: perl-DateTime-Format-Mail	45/49
Installing	: perl-DateTime-Format-HTTP	46/49
Installing	: perl-DateTime-Format-IBeat	47/49
Installing	: perl-DateTime-Format-Builder	48/49
Installing	: perl-perfSONAR_PS-PingER-server	49/49

P L E A S E R E A D

In order to finish PingER MP/MA installation You have to
Run: /etc/init.d/PingER configure
This will configure the MA/MP database and webservice's endpoint
More information can be found in the
/opt/perfsonar_ps/PingER/doc/INSTALL file

Installed:

perl-perfSONAR_PS-PingER-server.noarch 0:3.1-11.pSPS

Dependency Installed:

libdbi.i386 0:0.8.1-2.1
libdbi-dbd-mysql.i386 0:0.8.1a-1.2.2
libdbi-drivers.i386 0:0.8.1a-1.2.2
libxml2-devel.i386 0:2.6.26-2.1.2.8
mysql.i386 0:5.0.77-4.el5_4.1
mysql-server.i386 0:5.0.77-4.el5_4.1
perl-Carp-Assert.noarch 0:0.20-1.el5.rf
perl-Carp-Clan.noarch 0:6.04-1.el5.rf
perl-Class-Accessor.noarch 0:0.34-1.el5.rf
perl-Class-Factory-Util.noarch 0:1.7-1.el5.rf
perl-Class-Fields.noarch 0:0.203-1.pSPS
perl-Class-Singleton.i386 0:1.03-1.2.el5.rf
perl-Clone.i386 0:0.31-1.el5.rf
perl-Config-General.noarch 0:2.44-1.el5.rf
perl-DBD-mysql.i386 0:4.013-1.el5.rf
perl-DBI.i386 0:1.609-1.el5.rf
perl-Data-UUID.i386 0:1.203-1.el5.rf
perl-Date-Manip.noarch 0:5.54-2.el5.rf
perl-DateTime.i386 0:0.4305-1.el5.rf
perl-DateTime-Format-Builder.noarch 0:0.7901-1.el5.rf
perl-DateTime-Format-HTTP.noarch 0:0.38-1.el5.rf
perl-DateTime-Format-IBeat.noarch 0:0.161-1.el5.rf
perl-DateTime-Format-Mail.noarch 0:0.3001-1.el5.rf
perl-DateTime-Locale.noarch 0:0.4001-1.el5.rf
perl-DateTime-TimeZone.i386 0:0.46-1.el5.rf
perl-Error.noarch 0:0.17016-1.el5.rf
perl-Hash-Merge.noarch 0:0.11-1.pSPS
perl-IO-Interface.i386 0:1.05-1.el5.rf
perl-List-MoreUtils.i386 0:0.25.1-1.el5.rf
perl-Log-Log4perl.noarch 0:1.26-1.el5.rf
perl-Module-Load.noarch 0:0.16-1.el5.rf
perl-Net-Daemon.noarch 0:0.43-1.el5.rf
perl-NetAddr-IP.i386 0:4.027-1.pSPS
perl-Params-Validate.i386 0:0.91-1.el5.rf
perl-PlRPC.noarch 0:0.2020-1.el5.rf
perl-Readonly.noarch 0:1.03-1.2.el5.rf
perl-Regexp-Common.noarch 0:2010010201-1.el5.rf
perl-Statistics-Descriptive.noarch 0:3.0.100-1.el5.rf
perl-TermReadKey.i386 0:2.30-3.el5.rf
perl-Text-CSV_XS.i386 0:0.67-1.el5.rf
perl-TimeDate.noarch 1:1.16-5.el5
perl-XML-LibXML.i386 0:1.69-2.pSPS

```
perl-XML-LibXML-Common.i386 0:0.13-8.2.2
perl-XML-Namespacesupport.noarch 0:1.10-1.el5.rf
perl-XML-SAX.noarch 0:0.96-1.el5.rf
perl-aliased.noarch 0:0.30-1.el5.rf
perl-version.i386 0:0.76-1.el5.rf
zlib-devel.i386 0:1.2.3-3
```

Complete!

Configure PingER

```
$ sudo /etc/init.d/PingER configure
Password:
-- perfSONAR-PS Daemon Configuration --
- [press enter for the default choice] -

1) Set global values for the PingER MA/MP
2) Add/Edit PingER endpoint
3) Enable/Disable PingER port/endpoint
4) PingER MP/MA storage cleanup
5) Save and Exit ( configuration is saved automatically when you select 1 - 4 )
6) Exit without Save
? []: 1
Enter the maximum number of children processes (0 means infinite) [30]:
Enter number of seconds a child can process before it is stopped (0 means infinite) [300]:
Disable echo by default (0 for no, 1 for yes) [0]:
The LS for MAs to register with [http://packrat.internet2.edu:8005/perfSONAR_PS/services/LS]:
Interval between when LS registrations occur [in minutes] [60]:
URL of the root.hints file [http://www.perfsonar.net/gls.root.hints]:
Where should the root.hints file be stored [/etc/PingER/gls.root.hints]:
Interval between when children are repeated [in seconds] [20]:
Enter pid dir location [/tmp/]:
Enter pid filename [/var/run/perfsonar/pinger.pid]:
1) Set global values for the PingER MA/MP
2) Add/Edit PingER endpoint
3) Enable/Disable PingER port/endpoint
4) PingER MP/MA storage cleanup
5) Save and Exit ( configuration is saved automatically when you select 1 - 4 )
6) Exit without Save
? []: 3

Select element to enable/disable:
0) 8075
1) 8075/perfSONAR_PS/services/pinger/ma
2) 8075/perfSONAR_PS/services/pinger/mp
3) Exit
* element is disabled

Select a number from the above []: 3
1) Set global values for the PingER MA/MP
2) Add/Edit PingER endpoint
3) Enable/Disable PingER port/endpoint
4) PingER MP/MA storage cleanup
5) Save and Exit ( configuration is saved automatically when you select 1 - 4 )
6) Exit without Save
? []: 5

Saved config to /etc/PingER/daemon.conf
```

Fixes

Log/Dispatch/FileRotate

- prevents startup as per bug <http://code.google.com/p/perfsonar-ps/issues/detail?id=392>

```

sudo yum install perl-Log-Dispatch-FileRotate.noarch
Password:
Loaded plugins: rhnplugin
Setting up Install Process
Resolving Dependencies
--> Running transaction check
--> Package perl-Log-Dispatch-FileRotate.noarch 0:1.19-1.el5.rf set to be updated
--> Processing Dependency: perl-Log-Dispatch for package: perl-Log-Dispatch-FileRotate
--> Processing Dependency: perl(Log::Dispatch::File) for package: perl-Log-Dispatch-FileRotate
--> Processing Dependency: perl(Log::Dispatch::Output) for package: perl-Log-Dispatch-FileRotate
--> Running transaction check
--> Package perl-Log-Dispatch.noarch 0:2.26-1.el5.rf set to be updated
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                               Arch      Version      Repository    Size
=====
Installing:
perl-Log-Dispatch-FileRotate          noarch    1.19-1.el5.rf rpmforge      24 k
Installing for dependencies:
perl-Log-Dispatch                    noarch    2.26-1.el5.rf rpmforge      73 k

Transaction Summary
=====
Install      2 Package(s)
Update       0 Package(s)
Remove       0 Package(s)

Total download size: 96 k
Is this ok [y/N]: y
Downloading Packages:
(1/2): perl-Log-Dispatch-FileRotate-1.19-1.el5.rf.noarch.rpm | 24 kB 00:00
(2/2): perl-Log-Dispatch-2.26-1.el5.rf.noarch.rpm           | 73 kB 00:00
-----
Total                                                         54 kB/s | 96 kB 00:01
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : perl-Log-Dispatch                               1/2
  Installing      : perl-Log-Dispatch-FileRotate                   2/2

Installed:
perl-Log-Dispatch-FileRotate.noarch 0:1.19-1.el5.rf

Dependency Installed:
perl-Log-Dispatch.noarch 0:2.26-1.el5.rf

Complete!

```

daemon.pl could not be started

```

$ sudo /etc/init.d/PingER start
/opt/perfsonar_ps/PingER/bin/daemon.pl --config=/etc/PingER/daemon.conf --pidfile=/var/run/PingER --
pidfile=pinger.pid --logger=/etc/PingER/daemon_logger.conf --user=perfsonar --group=perfsonar
/etc/init.d/PingER start: daemon.pl could not be started

```

MySQL

Start Service

```
$ sudo /etc/init.d/mysqld start
Password:
Initializing MySQL database: Installing MySQL system tables...
100203 14:08:31 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
100203 14:08:31 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
OK
Filling help tables...
100203 14:08:31 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
100203 14:08:31 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
OK

To start mysqld at boot time you have to copy
support-files/mysql.server to the right place for your system

PLEASE REMEMBER TO SET A PASSWORD FOR THE MySQL root USER !
To do so, start the server, then issue the following commands:
/usr/bin/mysqladmin -u root password 'new-password'
/usr/bin/mysqladmin -u root -h vm-net-rhel5 password 'new-password'

Alternatively you can run:
/usr/bin/mysql_secure_installation

which will also give you the option of removing the test
databases and anonymous user created by default. This is
strongly recommended for production servers.

See the manual for more instructions.

You can start the MySQL daemon with:
cd /usr ; /usr/bin/mysqld_safe &

You can test the MySQL daemon with mysql-test-run.pl
cd mysql-test ; perl mysql-test-run.pl

Please report any problems with the /usr/bin/mysqlbug script!

The latest information about MySQL is available on the web at
http://www.mysql.com
Support MySQL by buying support/licenses at http://shop.mysql.com

Starting MySQL: [ OK ]
```

Secure DB

```
$ sudo /usr/bin/mysql_secure_installation
```

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MySQL
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MySQL to secure it, we'll need the current
password for the root user. If you've just installed MySQL, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MySQL
root user without the proper authorisation.

Set root password? [Y/n] Y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!

By default, a MySQL installation has an anonymous user, allowing anyone
to log into MySQL without having to have a user account created for
them. This is intended only for testing, and to make the installation
go a bit smoother. You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] Y
... Success!

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] Y
... Success!

By default, MySQL comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] Y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] Y
... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MySQL
installation should now be secure.

Thanks for using MySQL!

Test DB

```
$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 5.0.77 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql>
```

Instantiate Tables

```
$ cd /opt/perfsonar_ps/Pinger/scripts
$ # create the database 'pingerMA'
$ $ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 5.0.77 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> create database pingerMA
-> ;
Query OK, 1 row affected (0.00 sec)

mysql> quit
Bye
# create the schema for the database
$ cd /opt/perfsonar_ps/Pinger/scripts
$ mysql -u root -p pingerMA < create_pingerMA_MySQL.sql
Enter password:
$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 5.0.77 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| pingerMA |
+-----+
3 rows in set (0.00 sec)

mysql> use pingerMA;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_pingerMA |
+-----+
| data |
| host |
| metaData |
+-----+
3 rows in set (0.00 sec)
```

```
-- create the username and passwords
mysql> CREATE USER 'pinger'@'localhost' IDENTIFIED BY 'SOME_PASS';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'pinger'@'localhost' WITH GRANT OPTION;
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES ;
Query OK, 0 rows affected (0.00 sec)

mysql> quit
Bye

$ # test access to database
$ mysql -u pinger -p pingerMA
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 5.0.77 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> show tables;
+-----+
| Tables_in_pingerMA |
+-----+
| data                |
| host                |
| metaData            |
+-----+
3 rows in set (0.00 sec)
```

Update config files with DB info

```
$ sudo vi /opt/perfsonar_ps/PingER/etc/daemon.conf
```

- update in both endpoint sections

```
db_name      pingerMA
db_password  pinger
db_type      mysql
db_username  SOME_PASS
```

Configure Landmarks to Ping

Edit Daemon Config

- edit /opt/perfsonar_ps/PingER/etc/daemon.conf

```
configuration_file      /opt/perfsonar/PingER/etc/pinger-landmarks.xml
```

Edit /opt/perfsonar/PingER/etc/pinger-landmarks.xml

```
<pingertopo:topology xmlns:pingertopo="http://ogf.org/ns/nmwg/tools/pinger/landmarks/1.0/"
  xmlns:nmtl2="http://ogf.org/schema/network/topology/12/20070707/"
  xmlns:nmtl3="http://ogf.org/schema/network/topology/13/20070707/"
  xmlns:nmtl4="http://ogf.org/schema/network/topology/14/20070707/"
  xmlns:nmtb="http://ogf.org/schema/network/topology/base/20070707/"
  xmlns:nmwg="http://ogf.org/ns/nmwg/base/2.0/">
<pingertopo:domain id="urn:ogf:network:domain=slac.stanford.edu">
  <pingertopo:node id="urn:ogf:network:domain=slac.stanford.edu:node=pinger">
    <nmtb:hostName/>
    <nmtb:description>SLAC</nmtb:description>
    <nmwg:parameters id="paramidl">
      <nmwg:parameter name="packetSize">1000</nmwg:parameter>
      <nmwg:parameter name="count">10</nmwg:parameter>
      <nmwg:parameter name="packetInterval">1</nmwg:parameter>
      <nmwg:parameter name="ttl">255</nmwg:parameter>
      <nmwg:parameter name="measurementPeriod">60</nmwg:parameter>
      <nmwg:parameter name="measurementOffset"/>
    </nmwg:parameters>
    <nmtl3:port id="urn:ogf:network:domain=slac.stanford.edu:node=pinger:port=134.79.240.29">
      <nmtl3:ipAddress type="IPv4">134.79.240.29</nmtl3:ipAddress>
    </nmtl3:port>
  </pingertopo:node>
</pingertopo:domain>
</pingertopo:topology>
```

Test

on same host:

```
./pinger_client.pl -data
Metadata: src=vm-net-rhel5.slac.stanford.edu dst=134.79.240.29 packetSize=1000
Metadata Key(s): 1 :
2010/02/04 16:27:35 Skipping metadata - key or subject is missing

---- Key: vm-net-rhel5.slac.stanford.edu:134.79.240.29:1000
Data: tm= 2010-02-04 15:27
  datums: minRtt = 0.575 maxRtt = 0.599 medianRtt = 0.589 meanRtt = 0.588 maxIpD = 0.024 minIpD = 0.004 meanIpD
= 0.01 iqrIpD = 0.01
Data: tm= 2010-02-04 15:28
  datums: minRtt = 0.575 maxIpD = 0.016 maxRtt = 0.596 meanIpD = 0.009 medianRtt = 0.588 iqrIpD = 0.008 meanRtt
= 0.586
Data: tm= 2010-02-04 15:29
  datums: minRtt = 0.578 maxRtt = 0.6 medianRtt = 0.591 meanRtt = 0.589 maxIpD = 0.012 minIpD = 0.001 meanIpD =
0.007 iqrIpD = 0.004
Data: tm= 2010-02-04 15:30
  datums: minRtt = 0.584 maxRtt = 0.603 medianRtt = 0.591 meanRtt = 0.592 maxIpD = 0.012 minIpD = 0.004 meanIpD
= 0.007 iqrIpD = 0.003
Data: tm= 2010-02-04 15:31
  datums: minRtt = 0.582 maxRtt = 0.674 medianRtt = 0.589 meanRtt = 0.598 maxIpD = 0.075 minIpD = 0.003 meanIpD
= 0.015 iqrIpD = 0.006
Data: tm= 2010-02-04 15:32
  datums: minRtt = 0.575 maxRtt = 0.715 medianRtt = 0.591 meanRtt = 0.601 maxIpD = 0.131 minIpD = 0.002 meanIpD
= 0.022 iqrIpD = 0.012
Data: tm= 2010-02-04 15:33
  datums: minRtt = 0.584 maxRtt = 0.605 medianRtt = 0.593 meanRtt = 0.593 maxIpD = 0.016 minIpD = 0.002 meanIpD
= 0.007 iqrIpD = 0.007
Data: tm= 2010-02-04 15:34
  datums: minRtt = 0.579 maxRtt = 0.616 medianRtt = 0.597 meanRtt = 0.597 maxIpD = 0.031 minIpD = 0.001 meanIpD
= 0.017 iqrIpD = 0.012
Data: tm= 2010-02-04 15:35
  datums: minRtt = 0.583 maxRtt = 0.597 medianRtt = 0.591 meanRtt = 0.59 maxIpD = 0.014 minIpD = 0.002 meanIpD =
0.007 iqrIpD = 0.006
Data: tm= 2010-02-04 15:36
  datums: minRtt = 0.583 maxRtt = 0.603 medianRtt = 0.591 meanRtt = 0.591 maxIpD = 0.018 minIpD = 0.002 meanIpD
= 0.008 iqrIpD = 0.011
```

Data: tm= 2010-02-04 15:37
 datums: minRtt = 0.585 maxIpD = 0.017 maxRtt = 0.605 meanIpD = 0.008 medianRtt = 0.594 iqrIpD = 0.004 meanRtt = 0.594

Data: tm= 2010-02-04 15:38
 datums: minRtt = 0.577 maxRtt = 0.604 medianRtt = 0.587 meanRtt = 0.588 maxIpD = 0.023 minIpD = 0.002 meanIpD = 0.01 iqrIpD = 0.01

Data: tm= 2010-02-04 15:39
 datums: minRtt = 0.586 maxIpD = 0.011 maxRtt = 0.607 meanIpD = 0.006 medianRtt = 0.592 iqrIpD = 0.007 meanRtt = 0.593

Data: tm= 2010-02-04 15:40
 datums: minRtt = 0.582 maxIpD = 0.022 maxRtt = 0.605 meanIpD = 0.007 medianRtt = 0.591 iqrIpD = 0.008 meanRtt = 0.59

Data: tm= 2010-02-04 15:41
 datums: minRtt = 0.579 maxRtt = 0.602 medianRtt = 0.592 meanRtt = 0.589 maxIpD = 0.015 minIpD = 0.001 meanIpD = 0.01 iqrIpD = 0.009

Data: tm= 2010-02-04 15:42
 datums: minRtt = 0.586 maxIpD = 0.02 maxRtt = 0.606 meanIpD = 0.007 medianRtt = 0.593 iqrIpD = 0.002 meanRtt = 0.595

Data: tm= 2010-02-04 15:43
 datums: minRtt = 0.582 maxRtt = 0.606 medianRtt = 0.591 meanRtt = 0.591 maxIpD = 0.024 minIpD = 0.004 meanIpD = 0.008 iqrIpD = 0.003

Data: tm= 2010-02-04 15:44
 datums: minRtt = 0.582 maxRtt = 0.597 medianRtt = 0.59 meanRtt = 0.59 maxIpD = 0.011 minIpD = 0.001 meanIpD = 0.005 iqrIpD = 0.004

Data: tm= 2010-02-04 15:45
 datums: minRtt = 0.585 maxIpD = 0.015 maxRtt = 0.6 meanIpD = 0.005 medianRtt = 0.593 iqrIpD = 0.004 meanRtt = 0.592

Data: tm= 2010-02-04 15:46
 datums: minRtt = 0.575 maxRtt = 0.607 medianRtt = 0.589 meanRtt = 0.588 maxIpD = 0.018 minIpD = 0.002 meanIpD = 0.009 iqrIpD = 0.012

Data: tm= 2010-02-04 15:47
 datums: minRtt = 0.578 maxRtt = 0.597 medianRtt = 0.588 meanRtt = 0.587 maxIpD = 0.019 minIpD = 0.004 meanIpD = 0.009 iqrIpD = 0.006

Data: tm= 2010-02-04 15:48
 datums: minRtt = 0.569 maxIpD = 0.022 maxRtt = 0.605 meanIpD = 0.009 medianRtt = 0.589 iqrIpD = 0.016 meanRtt = 0.588

Data: tm= 2010-02-04 15:49
 datums: minRtt = 0.583 maxRtt = 0.612 medianRtt = 0.593 meanRtt = 0.592 maxIpD = 0.027 minIpD = 0.001 meanIpD = 0.012 iqrIpD = 0.005

Data: tm= 2010-02-04 15:50
 datums: minRtt = 0.585 maxIpD = 0.02 maxRtt = 0.61 meanIpD = 0.007 medianRtt = 0.59 iqrIpD = 0.01 meanRtt = 0.592

Data: tm= 2010-02-04 15:51
 datums: minRtt = 0.581 maxRtt = 0.605 medianRtt = 0.591 meanRtt = 0.591 maxIpD = 0.024 minIpD = 0.001 meanIpD = 0.01 iqrIpD = 0.008

Data: tm= 2010-02-04 15:52
 datums: minRtt = 0.582 maxRtt = 0.608 medianRtt = 0.589 meanRtt = 0.59 maxIpD = 0.017 minIpD = 0.001 meanIpD = 0.006 iqrIpD = 0.004

Data: tm= 2010-02-04 15:53
 datums: minRtt = 0.57 maxRtt = 0.633 medianRtt = 0.589 meanRtt = 0.593 maxIpD = 0.051 minIpD = 0.002 meanIpD = 0.016 iqrIpD = 0.017

Data: tm= 2010-02-04 15:54
 datums: minRtt = 0.576 maxRtt = 0.613 medianRtt = 0.589 meanRtt = 0.592 maxIpD = 0.035 minIpD = 0.001 meanIpD = 0.012 iqrIpD = 0.014

Data: tm= 2010-02-04 15:55
 datums: minRtt = 0.582 maxIpD = 0.023 maxRtt = 0.609 meanIpD = 0.009 medianRtt = 0.59 iqrIpD = 0.006 meanRtt = 0.59

Data: tm= 2010-02-04 15:56
 datums: minRtt = 0.579 maxRtt = 0.599 medianRtt = 0.587 meanRtt = 0.587 maxIpD = 0.012 minIpD = 0.001 meanIpD = 0.006 iqrIpD = 0.008

Data: tm= 2010-02-04 15:57
 datums: minRtt = 0.583 maxIpD = 0.011 maxRtt = 0.596 meanIpD = 0.005 medianRtt = 0.589 iqrIpD = 0.005 meanRtt = 0.588

Data: tm= 2010-02-04 15:58
 datums: minRtt = 0.572 maxIpD = 0.021 maxRtt = 0.594 meanIpD = 0.008 medianRtt = 0.587 iqrIpD = 0.012 meanRtt = 0.585

Data: tm= 2010-02-04 15:59
 datums: minRtt = 0.581 maxRtt = 0.593 medianRtt = 0.585 meanRtt = 0.585 maxIpD = 0.008 minIpD = 0.001 meanIpD = 0.004 iqrIpD = 0.001

Data: tm= 2010-02-04 16:00
 datums: minRtt = 0.579 maxIpD = 0.025 maxRtt = 0.609 meanIpD = 0.012 medianRtt = 0.587 iqrIpD = 0.017 meanRtt

= 0.588
Data: tm= 2010-02-04 16:01
datums: minRtt = 0.578 maxIpD = 0.029 maxRtt = 0.608 meanIpD = 0.008 medianRtt = 0.586 iqrIpD = 0.005 meanRtt = 0.586
Data: tm= 2010-02-04 16:02
datums: minRtt = 0.582 maxRtt = 0.616 medianRtt = 0.593 meanRtt = 0.595 maxIpD = 0.031 minIpD = 0.004 meanIpD = 0.015 iqrIpD = 0.005
Data: tm= 2010-02-04 16:03
datums: minRtt = 0.573 maxRtt = 0.597 medianRtt = 0.584 meanRtt = 0.583 maxIpD = 0.018 minIpD = 0.001 meanIpD = 0.008 iqrIpD = 0.007
Data: tm= 2010-02-04 16:04
datums: minRtt = 0.577 maxIpD = 0.263 maxRtt = 0.855 meanIpD = 0.067 medianRtt = 0.595 iqrIpD = 0.018 meanRtt = 0.62
Data: tm= 2010-02-04 16:06
datums: minRtt = 0.577 maxIpD = 0.027 maxRtt = 0.604 meanIpD = 0.013 medianRtt = 0.585 iqrIpD = 0.015 meanRtt = 0.587
Data: tm= 2010-02-04 16:08
datums: minRtt = 0.571 maxIpD = 0.029 maxRtt = 0.609 meanIpD = 0.014 medianRtt = 0.585 iqrIpD = 0.005 meanRtt = 0.587
Data: tm= 2010-02-04 16:09
datums: minRtt = 0.577 maxRtt = 0.598 medianRtt = 0.584 meanRtt = 0.585 maxIpD = 0.021 minIpD = 0.002 meanIpD = 0.01 iqrIpD = 0.008
Data: tm= 2010-02-04 16:10
datums: minRtt = 0.576 maxRtt = 0.598 medianRtt = 0.587 meanRtt = 0.587 maxIpD = 0.019 minIpD = 0.003 meanIpD = 0.014 iqrIpD = 0.006
Data: tm= 2010-02-04 16:11
datums: minRtt = 0.574 maxRtt = 0.601 medianRtt = 0.586 meanRtt = 0.586 maxIpD = 0.024 minIpD = 0.001 meanIpD = 0.014 iqrIpD = 0.013
Data: tm= 2010-02-04 16:12
datums: minRtt = 0.577 maxRtt = 0.599 medianRtt = 0.594 meanRtt = 0.591 maxIpD = 0.022 minIpD = 0.001 meanIpD = 0.009 iqrIpD = 0.012
Data: tm= 2010-02-04 16:13
datums: minRtt = 0.588 maxIpD = 0.004 maxRtt = 0.593 meanIpD = 0.002 medianRtt = 0.591 iqrIpD = 0.003 meanRtt = 0.59
Data: tm= 2010-02-04 16:14
datums: minRtt = 0.582 maxRtt = 0.595 medianRtt = 0.589 meanRtt = 0.588 maxIpD = 0.01 minIpD = 0.001 meanIpD = 0.004 iqrIpD = 0.005
Data: tm= 2010-02-04 16:15
datums: minRtt = 0.579 maxIpD = 0.015 maxRtt = 0.595 meanIpD = 0.007 medianRtt = 0.588 iqrIpD = 0.004 meanRtt = 0.588
Data: tm= 2010-02-04 16:16
datums: minRtt = 0.579 maxIpD = 0.017 maxRtt = 0.596 meanIpD = 0.007 medianRtt = 0.593 iqrIpD = 0.007 meanRtt = 0.589
Data: tm= 2010-02-04 16:17
datums: minRtt = 0.58 maxIpD = 0.016 maxRtt = 0.596 meanIpD = 0.006 medianRtt = 0.589 iqrIpD = 0.005 meanRtt = 0.587
Data: tm= 2010-02-04 16:18
datums: minRtt = 0.578 maxRtt = 0.602 medianRtt = 0.588 meanRtt = 0.587 maxIpD = 0.024 minIpD = 0.003 meanIpD = 0.01 iqrIpD = 0.006
Data: tm= 2010-02-04 16:19
datums: minRtt = 0.58 maxRtt = 0.605 medianRtt = 0.593 meanRtt = 0.592 maxIpD = 0.025 minIpD = 0.006 meanIpD = 0.014 iqrIpD = 0.008
Data: tm= 2010-02-04 16:20
datums: minRtt = 0.571 maxRtt = 0.594 medianRtt = 0.589 meanRtt = 0.587 maxIpD = 0.023 minIpD = 0.003 meanIpD = 0.008 iqrIpD = 0.004
Data: tm= 2010-02-04 16:21
datums: minRtt = 0.581 maxRtt = 0.605 medianRtt = 0.589 meanRtt = 0.589 maxIpD = 0.024 minIpD = 0.001 meanIpD = 0.008 iqrIpD = 0.002
Data: tm= 2010-02-04 16:22
datums: minRtt = 0.58 maxRtt = 0.6 medianRtt = 0.588 meanRtt = 0.588 maxIpD = 0.013 minIpD = 0.003 meanIpD = 0.006 iqrIpD = 0.003
Data: tm= 2010-02-04 16:23
datums: minRtt = 0.581 maxIpD = 0.019 maxRtt = 0.613 meanIpD = 0.006 medianRtt = 0.595 iqrIpD = 0.012 meanRtt = 0.595
Data: tm= 2010-02-04 16:24
datums: minRtt = 0.582 maxRtt = 0.603 medianRtt = 0.593 meanRtt = 0.594 maxIpD = 0.021 minIpD = 0.003 meanIpD = 0.008 iqrIpD = 0.006
Data: tm= 2010-02-04 16:25
datums: minRtt = 0.584 maxIpD = 0.012 maxRtt = 0.601 meanIpD = 0.004 medianRtt = 0.596 iqrIpD = 0.004 meanRtt = 0.595
Data: tm= 2010-02-04 16:26

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datums: minRtt = 0.58 maxRtt = 0.59 medianRtt = 0.587 meanRtt = 0.584 maxIpD = 0.007 minIpD = 0.001 meanIpD =  
0.005 iqrIpD = 0.005  
Data: tm= 2010-02-04 16:27  
datums: minRtt = 0.586 maxRtt = 0.604 medianRtt = 0.591 meanRtt = 0.592 maxIpD = 0.016 minIpD = 0.001 meanIpD  
= 0.007 iqrIpD = 0.005
```