

# Creating Annual ICFA Reports

## Directory

Change the year (2014) as appropriate

```
144cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14 # Top level directory
145cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/slaonly # Directory for spreadsheets,
images etc.
146cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/ICFA-report-14/ # Directory for drafts
148cottrell@pinger:~$ls -l /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/
total 4
drwxr-xr-x 2 cottrell sf 2048 Dec 11 16:27 ICFA-report-14/
drwxr-xr-x 2 cottrell sf 2048 Dec 11 16:25 slaonly/
```

Permissions

```
152cottrell@pinger:~$rajaasad$cd /afs/slac/www/xorg/icfa/icfa-net-paper-jan14
153cottrell@pinger:/afs/slac/www/xorg/icfa/icfa-net-paper-jan14
```

fs la

Access list for . is

Normal rights:

```
g-www:g-scs-net rlidwk
g-www:g-admin rlidwka
g-www:g-scs rlidwka
system:slac rl
system:administrators rlidwka
system:authuser rl
```

```
159cottrell@pinger:~$pts adduser -user rajaasad -group g-www:g-scs-net
```

```
165cottrell@pinger:~$pts mem g-www:g-scs-net
```

```
Members of g-www:g-scs-net (id: -6798) are:
pinger
rajaasad
```

## Drafts etc.

The Word drafts go in

/afs/slac/www/xorg/icfa/icfa-net-paper-jan14/ICFA-report-14/

the naming convention is ICFA-report-2014-dec11.docx where the date changes according to the draft. If more than one draft per day then use ICFA-report-2014-dec11-13.docx where 13 is the hour of the day.

The final version goes in

/afs/slac/www/xorg/icfa/icfa-net-paper-jan14/report-jan14.docx

It will be accessible from the web as <http://www.slac.stanford.edu/xorg/icfa/icfa-net-paper-jan14/report-jan14.docx>

## Where to find data/images etc.

| Fig 1   | Locations of PingER Monitoring and Remote sites | <a href="http://www-iepm.slac.stanford.edu/pinger/pingerworld/">http://www-iepm.slac.stanford.edu/pinger/pingerworld/</a>                                                                                                                                                                                                                                   |
|---------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 1 | PingER Monitored Countries and populations      | <a href="http://www-iepm.slac.stanford.edu/pinger/sites-per-country.html">http://www-iepm.slac.stanford.edu/pinger/sites-per-country.html</a> gives the number of countries monitored in a region.                                                                                                                                                          |
| Fig 3   | Number of sites monitored by SLAC               | Use <a href="http://www-wanmon.slac.stanford.edu/cgi-wrap/pingtable.pl">http://www-wanmon.slac.stanford.edu/cgi-wrap/pingtable.pl</a> , see the # pairs in the Summary at the end. This time of year is a good time to ensure we have at least 2 working sites per country. To find sites use HostSearcher.pl. To update the meta database use NODEDETAILS. |

|              |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fig 4        | Packet loss by region by year                               | <p>Look in /afs/slac/g/www/www-iepm/pinger/prmout/packet_loss-EDU.SLAC.STANFORD.N3-continent-allyearly.csv. You can also look in <a href="http://www-iepm.slac.stanford.edu/pinger/prmout/">http://www-iepm.slac.stanford.edu/pinger/prmout/</a>. The file is usually updated by prm.pl via trscrontab (see <a href="http://www-iepm.slac.stanford.edu/pinger/crontab-slaonly.txt">http://www-iepm.slac.stanford.edu/pinger/crontab-slaonly.txt</a>) at the start of the year to get the previous year. You should run the script again (Note: You need to run it from pinger@pinger)</p> <pre>time /afs/slac.stanford.edu/package/pinger/prm/prm.pl -lp true -c /afs/slac.stanford.edu/package/pinger/prm/prm-allyearly-continent.conf</pre> <p>Once you have the csv file (see above) check the date with</p> <pre>155cottrell@pinger:~\$ls -l /afs/slac/g/www/www-iepm/pinger/prmout/*-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1192 Dec 12 17:17 /afs/slac/g/www/www-iepm/pinger/prmout/MOS-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1485 Dec 12 15:59 /afs/slac/g/www/www-iepm/pinger/prmout/alpha-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1912 Dec 12 15:53 /afs/slac/g/www/www-iepm/pinger/prmout/average_rtt-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1631 Dec 12 15:53 /afs/slac/g/www/www-iepm/pinger/prmout/ipdv-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1745 Dec 12 17:11 /afs/slac/g/www/www-iepm/pinger/prmout/minimum_rtt-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 2949 Dec 12 15:55 /afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1590 Dec 12 17:14 /afs/slac/g/www/www-iepm/pinger/prmout/packet_loss-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1972 Dec 12 17:15 /afs/slac/g/www/www-iepm/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv</pre> <p>then you can use Excel to produce the chart.</p> |
| Fig 5        | Minimum RTTs measured from SLAC                             | Go to <a href="http://www-iepm.slac.stanford.edu/pinger/explorer.html">http://www-iepm.slac.stanford.edu/pinger/explorer.html</a> , click on Motion Histogram. You will need to update the data to bring it up to date. See <a href="#">Pinger Data Explorer</a> document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fig 7        | Minimum RTT from SLAC to various Countries                  | See Fig 5 above and click on Line Chart instead of Motion Histogram.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Fig 8        | Jitter from SLAC                                            | See Fig 4, just use the csv file<br><br>/afs/slac/g/www/www-iepm/pinger/prmout/ipdv-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Fig 9        | Yearly averaged normalize derived TCP throughputs from SLAC | See Fig 4, just use the csv file<br><br>/afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Figs 10 & 11 | Derived throughputs from SLAC                               | See Fig 4, just use the csv file<br><br>/afs/slac/g/www/www-iepm/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Fig 12       | Normalized throughputs to regions seen from CERN            | <p>Look in /afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-CH.CERN.N20-continent-allyearly.csv. It is usually updated by prm.pl via trscrontab (see <a href="http://www-iepm.slac.stanford.edu/pinger/crontab-slaonly.txt">http://www-iepm.slac.stanford.edu/pinger/crontab-slaonly.txt</a>) at the start of the year to get the previous year. You should run the script again</p> <pre>/afs/slac.stanford.edu/package/pinger/prm/prm.pl -lp true \ -c /afs/slac.stanford.edu/package/pinger/prm/prm-allyearly-continent-cern.conf</pre> <p>Once you have the csv file (see above) you can use Excel to produce the chart.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Table 3      | Derived throughputs in kbit/s                               | Go to <a href="http://www-wanmon.slac.stanford.edu/cgi-wrap/table.pl">http://www-wanmon.slac.stanford.edu/cgi-wrap/table.pl</a> . Select From TLD, To Continent, TCP Throughput (kbits/s) and the previous month. Click on submit. Wait (be patient takes a couple of minutes). Cut and paste the resultant table into Excel and then use Excel to re-arrange and re-format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Fig 14       | Throughput from SLAC to SE Asian countries                  | Go to <a href="http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-country-allyearly.csv">http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-country-allyearly.csv</a> download into Excel and extract Singapore, Malaysia, Vietnam, Indonesia, Brunei, Cambodia, Laos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| New Fig      | Throughput from Malaysia to S.E. Asian countries            | Go to <a href="http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-Malaysia-country-allyearly.csv">http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-Malaysia-country-allyearly.csv</a> download into Excel and extract Singapore, Malaysia, Vietnam, Indonesia, Brunei, Cambodia, Laos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Moving data between Linux and Windows

We use the WinSCP app

