

# 20121214 SLAC, SEECS, UNIMAS PingER project meeting at UNIMAS

## Introduction

This was a face to face meeting following the PingER workshop at UNIMAS. The attendees were Johari Abdullah (UNIMAS), Anjum Navid (NUST), Kashif Satar (NUST) and Les Cottrell (SLAC). the pupose of the meeting was to explore potential grant sources and see how to proceed.

## Potential grants

- eScience proposal, 150K RM for a single institution, 450K RM for multiple institutions. Applications close Feb 13th.
- Fundamental Research Grant Scheme (FRGS) <= 50K RM for 2 years
- Exploratory Research Grant for Initial data <=10K RM for 1 year
- Ongoing Term Research Grant Scheme, usually for research, need a partner such as UTM or UM <= 4 years

SEECS had grants in 2003 and 2008 for 37M Rupees (~\$1M US). Part of this supported graduate students (one year each, 2/year) to SLAC for training.

## Potential research projects

- Anomaly detection, filtering and reporting
- Network security
- GeoLocation

## Requirements

NUST has been using old desktops for the monitoring hosts they deploy.

Another alternative is an embedded ePingER host. These use little power (<2W) and are cheap. The power issue may be important for sites such as Bario. The archive site at NUST has 2.5TB of RAID disk. The total layout was ~\$26K US. The porting of the software from SLAC was a several month job.

## Action Items

We will pursue the Exploratory Research Grant for Initial data in order to support setting up three or more PingER monitoring hosts in Malaysia. Potential sites are UM, MYREN, UTM, and UNIMAS. This will be the basis of a larger deployment in Malaysia. This in turn will provide end-to-end active current and archival monitoring data. This can be mined for research in:

- understand the intra-Malaysia end-to-end Internet performance, identifying
  - bottlenecks,
  - poor performance and reasons
  - making recommendations for better performance
- comparing Intra-Malaysian Internet performance with other regions
- looking for correlations across multiple routes
- Identifying anomalies

The infrastructure can also be used to provide landmarks for measuring RTT to target hosts for geolocation research

Anjum shared proposals from NUST can be used as input to various proposals.

Johari will review the proposals and put together a draft.