

## OS Status Meeting Minutes

December 10, 2007

### Steve Bergwerff

- Introductions to Scott Miller, a new hire in the kernel support team joining the meeting today, along with Peter Luscher and Gordon Rice.
- Important Trinity 2 dates to be aware of:
  - M3 test results review is today
  - M4 build is on Tuesday (Dec 11).
  - M5 build is scheduled for Jan 16

### Doug Bailey

- Worked on a number of PRs last week
  - PR 53959 for trace event with user string when a bad string pointer is used. Provided a fix.
  - ISR causing a crash. Will give an experimental proc to dump out additional info.
  - PR 24729 was fixed for SH PVR
  - Investigating PR 40853 for a regression test failure in Trinity 2 that was originally reported on arm then showed up on sh.
  - Problem with EIDE driver for RP1. Added a comment to PR to get more info and assigned to Hugh.
  - PR 53263 for a customer backport for mapinfo. Submitted the change for code inspection.
- This week will wrap up the experimental load for customer and will get trace event fix. Will then work on the RP1 PR.

### Peter Mitsis

- Last couple of weeks spent some time writing test cases for PR 19321 and 46995.
- Rest of time spent on PRs
  - PR 53519 ended up being a dup.
  - PR 45631 fix is submitted for CI
  - Looked into an apparent regression failure for Trinity 2 during file system testing but couldn't reproduce it and discovered that the test was newly added and doesn't apply to the older file system
  - Investigating PR 53580 for a data compare error. Not sure if it is a file system issue or memory manager.
  - PR 53181 is for a warning that only applies to older drivers. Will add a release note to indicate under what conditions the warning will be reported.
- Going through fixed PRs to determine exactly which ones would be included in an update to the file system.
- For the analysis on the apparent file system read/write performance slowdown, it was discovered that the customer had not enabled L2 cache. Once this was done the numbers were as expected.

### Mosa Yeung

- Wrote some test cases for Trinity 2.
- Still fixing lint warnings against Trinity 2 and almost ready for CI for services/systems. There will be 59 files.

### Brian Stecher

- Last week a good part of the time was spent working on PRs and triaging incoming PRs
- Working on a customer issue that was reported on 6.3.0 SP2. If add a couple of no-ops at specific points, then it starts working. Almost at the point of being able to prove that it is an errata and not the OS
- Working on a wired tlb fix for Trinity 2. Have a pretty good idea of how to fix it.

- Applied a workaround to an errata for the 8641D. Required a proc change and startup changes which are now on the head.
- This week, will continue working on the customer issue (suspected errata) and wired TLB, and a few other issues reported by a customer that is working with Trinity 2.

#### Shiv Nagarajan

- Spent some time looking at several small PRs that have now been applied to head and a few others that are waiting on CI requests
- Worked on three customer reported issues for Trinity 2.
  - One was for a process getting blocked on an mmap\_peer call. Built a debug proc and gave to the customer to try.
  - Second is a select() issue with telnet. Have Sean involved with the investigation on this.
  - Third is a reported crash triggered by a qnet test. Need more info to try and reproduce it here.
- Also committed a change for PR 54054 to support mmap() NOINIT flag on Trinity 2..
- Have some other PRs for Trinity 2 that will try to complete and send diffs for CI.

#### Atilla Danko

- The test case for the cs\_time change in Trinity 2 uncovered a problem. Fixed the issue and the test case now passes.
- Was looking at 3 PRs that were marked as high priority for Trinity 2. These are all addressed now.
- Spent some further time looking at async message code to see if some of the remaining issues can be fixed without a rewrite of the code.
- Asked Kerry to give a tech talk about Athens 6.4.0.
- This week will spend 2 days in meetings with consultants regarding additional process certification.

#### Colin Burgess

- Working on various PRs
  - Have a fix checked in for PR 11211.
  - Have a couple of waitfor() fixes which are almost ready. Got the CI back from Peter V with some good comments that need to be implemented.
- Customer using Trinity 2 is having an issue with trying to read process memory and getting a server fault. Pretty sure that it's a bug in the customer code but will continue to work with them this week.
- Also the same customer reported an issue using wired TLB on their hardware. After investigation with Brian, discovered a logic error that could cause it but haven't been able to reproduce it here yet. The customer made a change for the shared library and is no longer held up by this but we'll continue to work on it.
- Looking into a Trinity 2 customer reported issue with devctl call on SMP.
- Working on tiger team for getting a full head branch using the gcc 4.2.1 compiler.
- Attended PR review on all that are assigned to me. Have another meeting this week to complete it.

#### Marian Kos

- Running Trinity 2 APM regression tests, changing and fixing test cases, creating new ones, and generating PRs,
- Finding issues with running on SMP.

#### Linda Deng

- Setting up and running tinderbox on Trinity 2. Getting familiar with the build and analyzing and going thru the errors.
- Created some new test cases for Trinity 2.
- Resolved some file system regression test issues for Trinity 2.

Angelina Gomes

- Mostly working on doc updates for the orange team right now.
- Did some work on terminology updates for Memory Partitioning doc. Will work with Atilla to get his FAQ added for APM.

Sunil Kittur and Mike Kisel

- Not in attendance.