

Active Data

<http://activedata.allizom.org>

Kyle Lahnakoski
Engineering Productivity
(formerly Auto-Tools Team)
...but still the “A Team”

Lightning talk on...

Active Data

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What is ActiveData?

- A public web service...

```
$ curl http://activedata.allizom.org/query  
-X POST  
-d "{\"from\":\"unittest\"}"
```


What is ActiveData?

- A public web service...
- providing a query interface...

```
{  
  "select": {  
    "aggregate": "count"  
  },  
  "from": "unittest"  
}
```


What is ActiveData?

- A public web service...
- providing a query interface...
- to over a billion test results...

```
{
  "meta": {
    "active_data_response_time": 3.09,
    "format": "cube",
    "es_response_time": 1.57,
    "saved_as": "3iK9T6sG",
    "content_type": "application/json"
  },
  "data": { "count": 1265099071 }
}
```


What is ActiveData?

- A public web service...
- providing a query interface...
- to over a billion test results...

- Quickly!

```
{  
  "meta": {  
    "active_data_response_time": 3.09,  
    "format": "cube",  
    "es_response_time": 1.57,  
    "saved_as": "3iK9T6sG",  
    "content_type": "application/json"  
  },  
  "data": { "count": 1265099071 }  
}
```


Test Result Document

```
{
  "_id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.47399997111816,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c8348187bba050543c7dc5ec7d0c0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d5a5e024495f1f6e450b7cda97a4939217cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 637,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-epot-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53_log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-build22-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taaskcluster.net/v1/task/761vwMmQUN6MAZ3Y229xA/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "0150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
  },
  "repo": {
    "changeset": {
      "files": [
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing -terrence",
      "author": "Don replaced@mozilla.com",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
    },
    "index": 260843,
    "parents": "21e229c5ff708285d9e2c837c9679aab5ee4c48",
    "branch": {
      "url": "https://hg.mozilla.org/integration/mozilla-inbound",
      "last used": 1440115924,
      "locale": "en-US",
      "name": "mozilla-inbound",
      "parent_name": "Source code integration work"
    },
    "push": {
      "date": 1441278531,
      "user": "replaced@mozilla.com",
      "id": 64555,
      "children": "e737274a67063f673d47d1895e3008dc6d73cf9c",
      "url": ("timestamp": 1441286446.851573)
    },
    "url": {
      "name": "unittest",
      "timestamp": 1441286777.499345,
      "source": {
        "os": "linux3.13.0-48-generic",
        "python": "CPython",
        "timestamp": 1441286769.820252,
        "source": {
          "name": "Pulse block",
          "timestamp": 1441284205.602198,
          "bucket": "akyle-pulse-loggers",
          "source": {
            "count": 18220475,
            "name": "pulse.mozilla.org",
            "sent": 1441255343,
            "id": 18220475
          },
          "type": "aggregation",
          "id": 182553
        },
        "type": "join",
        "id": 14,
        "name": "plain-chunked_raw.log"
      },
      "duration": 7.638665000000002,
      "type": "join",
      "id": 179,
      "revision": "bed2886f2ba55f32ac8792944c1ca822797cf7e3"
    }
  }
}
```

One test result document

Test Result Document

```
{
  "id": "1629231822001-1441279",
  "result": {
    "status": "OK",
    "stats": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.473999977111816,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7dcd0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d5a6e0249a5f1fc645b0c7d6a97a4959227cfca11dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stats": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 636,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-apt-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53.log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-bml22-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taackcluster.net/v1/task/761vwMmQUM6IA3Y229a/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
  },
  "repo": {
    "changeset": {
      "files": {
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      },
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing r=terrence",
      "author": "Don replaced@mozilla.com",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
    },
    "index": 260643,
    "parents": "21e229c5ff708285d9e2c837c9679aab5ee4c48",
    "branch": {
      "url": "https://hg.mozilla.org/integration/mozilla-inbound",
      "last used": 144015924,
      "locale": "en-US",
      "name": "mozilla-inbound",
      "parent_name": "Source code integration work"
    },
    "push": {
      "date": 1441278531,
      "user": "replaced@mozilla.com",
      "id": 64555
    },
    "children": "e737274a67063673d47d1895e3008dc6d73cf9c",
    "url": "http://timestamp: 144128446.851573"
  },
  "url": {
    "name": "unittest",
    "timestamp": 1441286777.499345,
    "source": {
      "os": "linux3.13.0-48-generic",
      "python": "CPython",
      "timestamp": 1441286769.820252,
      "source": {
        "name": "Pulse block",
        "timestamp": 1441284205.602198,
        "bucket": "akyle-pulse-loggers",
        "source": {
          "count": 18220475,
          "name": "pulse.mozilla.org",
          "sent": 1441255343,
          "id": 18220475
        },
        "type": "aggregation",
        "id": 182553
      },
      "type": "join",
      "id": 14,
      "name": "plain-chunked_raw.log"
    },
    "duration": 7.638665000000002,
    "type": "join",
    "id": 179,
    "revision": "bed2886f2ba55f32ac8792944c1ca822797cf7e3"
  }
}
```

```
"result": {
  "status": "OK",
  "stats": {
    "action": {
      "test_status": 432
    },
    "fail": 6,
    "pass": 426
  },
  "ok": false,
  "start_time": 1441284018.565,
  "test": "toolkit/components/prompts/tes...",
  "result": "OK",
  "expected": "OK",
  "last_log_time": 1441284036.021,
  "duration": 17.473999977111816,
  "end_time": 1441284036.039,
  "subtests": [
    {
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stats": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.022,
    "duration": 17.47399997111856,
    "end_time": 1441284036.032,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "pass",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7ddc0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d5a5e0248a5f1fc645bcb7da97a4959227cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stats": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 632,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "talos": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-apt-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53.log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-build22-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taaskcluster.net/v1/task/761vwMmQUM6IA3Y229xA/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3ca"
  },
  "repo": {
    "changeset": {
      "files": [
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing -terrence",
      "author": "Don Replacod@mozilla.com",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3ca"
    },
    "index": 260643,
    "parents": "21e229c5ff708285d9e2c837c9679aab5ee4c48",
    "branch": {
      "url": "https://hg.mozilla.org/integration/mozilla-inbound",
      "last used": 1440115924,
      "locale": "en-US",
      "name": "mozilla-inbound",
      "parent name": "Source code integration work"
    },
    "push": {
      "date": 1441278531,
      "user": "replaced@mozilla.com",
      "id": 64555,
      "children": "e737274a67063f673d47d1895e3008dc6d73cf9c",
      "rel": { "timestamp": 1441286446.851573 }
    },
    "rel": {
      "name": "unittest",
      "timestamp": 1441286777.499345,
      "source": {
        "os": "linux3.13.0-48-generic",
        "python": "CPython",
        "timestamp": 1441286769.820252,
        "source": {
          "name": "Pulse block",
          "timestamp": 1441284205.602198,
          "bucket": "akyle-pulse-loggers",
          "source": {
            "count": 18220475,
            "name": "pulse.mozilla.org",
            "sent": 1441255343,
            "id": 18220475
          },
          "type": "aggregation",
          "id": 182553
        },
        "type": "join",
        "id": 14,
        "name": "plain-chunked_raw.log"
      },
      "duration": 7.638665000000002,
      "type": "join",
      "id": 179,
      "revision": "bed2886f2ba55f32ac8792944c1ca822797cf7e3"
    }
  }
}
```

```
"subtests": [
  {
    "status": "fail",
    "ok": false,
    "name": "checking button0 default",
    "ordering": 0,
    "timestamp": 1441284033.645,
    "subtest": "checking button0 default",
    "expected": "pass",
    "message": "got false, expected true"
  },
  {
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.473999977118166,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7dcd0b2433ea9dcfa0217bd99a3ae40daacfd74c9225afa8945d3ae024945f1ffc646b0c7dca97a4959227cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 653,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "Warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-epot-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53_log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-m122-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taackcluster.net/v1/task/761vwMmQLNM9A3Y229x/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
  },
  "repo": {
    "changeset": {
      "files": [
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing r=terrence",
      "author": "Don Redmond@mozilla.com",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
    },
    "index": 260643,
    "parents": "21e229c5ff708285d9e2c837c9679aab5ee4c48",
    "branch": {
      "url": "https://hg.mozilla.org/integration/mozilla-inbound",
      "last used": 1440115924,
      "locale": "en-US",
      "name": "mozilla-inbound",
      "parent_name": "Source code integration work"
    },
    "push": {
      "date": 1441278531,
      "user": "replaced@mozilla.com",
      "id": 64555
    },
    "children": "e737274a67063f673d47d1895e3008dc6d73cf9c",
    "etl": { "timestamp": 1441286446.851573 }
  },
  "etl": {
    "name": "unittest",
    "timestamp": 1441286777.499345,
    "source": {
      "os": "linux3.13.0-48-generic",
      "python": "CPython",
      "timestamp": 1441286769.820252,
      "source": {
        "name": "Pulse block",
        "timestamp": 1441284205.602198,
        "bucket": "skyle-pulse-loggers",
        "source": {
          "count": 18220475,
          "name": "pulse.mozilla.org",
          "sent": 1441255343,
          "id": 18220475
        },
        "type": "aggregation",
        "id": 182553
      },
      "type": "join",
      "id": 14,
      "name": "plain-chunked_raw.log"
    },
    "duration": 7.638665000000002,
    "type": "join",
    "id": 179,
    "revision": "bed2886f2ba55f32ac8792946c1ca822797cf7e3"
  }
}
```

```
"run": {
  "files": {
    "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7dcd0b2433ea9dcfa0217bd99a3ae40daacfd74c9225afa8945d3ae024945f1ffc646b0c7dca97a4959227cfca1dc1f93",
    "name": "plain-chunked_raw.log"
  },
  "status": 1,
  "stats": {
    "status": { "skip": 18, "ok": 636 },
    "ok": 653,
    "lines": 3705,
    "start_time": 1441283166.06,
    "bytes": 869394,
    "action": {
      "test_status": 617,
      "log": 1718,
      "process_exit": 30,
      "process_start": 30
    },
    "end_time": 1441284124.884,
    "duration": 958.824000120163,
    "total": 654
  }
}
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.47399997111816,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7dcd0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d3ae0249a5f1fcc645b0c7da97a4959227cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 637,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "talos": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tst-linux64-spot-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53_log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-bml22-tests1-linux64-build53.txt.gz"
  },
  "product": "firefox",
  "revision12": "550e06c1615f",
  "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
  "url": "https://queue.taskcluster.net/v1/task/761vwMmQUM6IA3Y229a/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
  "platform": "linux64",
  "branch": "mozilla-inbound",
  "date": 1441284602,
  "release": "production",
  "locale": "en-US",
  "type": "pgo",
  "id": "20150903043002",
  "revision": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
},
{
  "repo": {
    "changeset": {
      "files": [
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing -terence",
      "author": "Don Replogue@mozilla.com",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
    },
    "index": 260643,
    "parents": "21e229c5ff708285d9e2c837c9679aab55ee4c48",
    "branch": {
      "url": "https://hg.mozilla.org/integration/mozilla-inbound",
      "last used": 1440115924,
      "locale": "en-US",
      "name": "mozilla-inbound",
      "parent_name": "Source code integration work"
    },
    "push": {
      "date": 1441278531,
      "user": "replaced@mozilla.com",
      "id": 64555,
      "children": "e737274a67063673d47d1895e3008dc6d73cf9c",
      "etl": { "timestamp": 1441286446.851573 }
    },
    "etl": {
      "name": "unittest",
      "timestamp": 1441286777.499345,
      "source": {
        "os": "linux3.13.0-48-generic",
        "python": "CPython",
        "timestamp": 1441286769.820252,
        "source": {
          "name": "Pulse block",
          "timestamp": 1441284205.602198,
          "bucket": "akyle-pulse-loggers",
          "source": {
            "count": 18220475,
            "name": "pulse.mozilla.org",
            "sent": 1441255343,
            "id": 18220475
          },
          "type": "aggregation",
          "id": 182553
        },
        "type": "join",
        "id": 14,
        "name": "plain-chunked_raw.log"
      },
      "duration": 7.638665000000002,
      "type": "join",
      "id": 179,
      "revision": "bed2886f2ba55f32ac8792944c1ca822797cf9e3"
    }
  }
}
```

```
"buildbot_status": "warnings",
"timestamp": 1441284143,
"chunk": 5,
"talos": false,
"machine": {
  "os": "ubuntu64_vm",
  "name": "tst-linux64-spot-1771"
},
"key": "build.mozilla-inbound_ubuntu64_...
"suite": "mochitest",
"insertion_time": 1441284143,
"job_number": 53,
"logurl": http://ftp.mozilla.org/pub/mo...
},
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.022,
    "duration": 17.47399997711836,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad505043c7dc5ec7dcd0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d5a6e2049a5f1f6463b07da97a4959227cfca11dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 637,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "Warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-epot-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53.log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-bml22-test-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taskcluster.net/v1/task/761vwMmQUM6IA3Y229xA/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441254602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
  },
  "changeset": {
    "files": [
      "js/src/vm/HelperThreads.cpp",
      "js/src/vm/HelperThreads.h",
      "js/src/vm/Runtime.cpp"
    ],
    "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing r=terence",
    "author": "Don replaced@mozilla.com",
    "id12": "550e06c1615f",
    "date": 1441278480,
    "id": "550e06c1615f82cc82278873f8137edbdd0c3c3a"
  },
  "index": 260643,
  "parents": "21e229c5ff708285d9e2c837c9679aab5ee4c48",
  "branch": {
    "url": "https://hg.mozilla.org/integration/mozilla-inbound",
    "last_used": 1440115924,
    "locale": "en-US",
    "name": "mozilla-inbound",
    "parent_name": "Source code integration work"
  },
  "push": {
    "date": 1441278531,
    "user": "replaced@mozilla.com",
    "id": 64555,
    "children": "e737274a67063f673d47d1895e3008dc6d73cf9c",
    "etl": { "timestamp": 1441286446.851573 }
  },
  "etl": {
    "name": "unittest",
    "timestamp": 1441286777.499345,
    "source": {
      "os": "linux3.13.0-48-generic",
      "python": "CPython",
      "timestamp": 1441286769.820252,
      "source": {
        "name": "Pulse block",
        "timestamp": 1441284205.602198,
        "bucket": "skyle-pulse-loggers",
        "source": {
          "count": 18220475,
          "name": "pulse.mozilla.org",
          "sent": 1441255343,
          "id": 18220475
        }
      },
      "type": "aggregation",
      "id": 182553
    },
    "type": "join",
    "id": 14,
    "name": "plain-chunked_raw.log"
  },
  "duration": 7.638665000000002,
  "type": "join",
  "id": 179,
  "revision": "bed2886f2ba55f32ac8792944c1ca822797cf7e3"
}
```

```
"build": {
  "product": "firefox",
  "revision12": "550e06c1615f",
  "name": "Ubuntu VM 12.04 x64 mozilla-i...",
  "url": "https://queue.taskcluster.net/...",
  "platform": "linux64",
  "branch": "mozilla-inbound",
  "date": 1441254602,
  "release": "production",
  "locale": "en-US",
  "type": "pgo",
  "id": "20150903043002",
  "revision": "550e06c1615f82cc82278873f...",
},
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.473999977111836,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c8348187baad05043c7dc5c7ddc0b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d3ae0249a5f1ffc645b0c7da97a49592127cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 637,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "Warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-epot-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53_log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5=build22-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taskcluster.net/v1/task/761vwMmQUM6IA3Y229xA/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3ca"
  },
  "repo": {
    "changeset": {
      "files": [
        "js/src/vm/HelperThreads.cpp",
        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing r=terrence",
      "author": "Jon <replaced@mozilla.com>",
      "id12": "550e06c1615f",
      "date": 1441278480,
      "id": "550e06c1615f82cc82278873f8137edbdd0c3ca"
    },
    "index": 260643,
    "parents": "21e229c5ff708285d9e2c837c967...",
    "branch": "https://hg.mozilla.org/integration/mozilla-inbound",
    "last_user": 144015924,
    "locale": "en-US",
    "name": "mozilla-inbound",
    "parent_name": "Source code integration work"
  },
  "push": {
    "date": 1441278531,
    "user": "replaced@mozilla.com",
    "id": 64855,
    "children": "e737274a67063f673d47d1895e3008dc6d73cf9c",
    "url": "https://hg.mozilla.org/integration/mozilla-inbound"
  },
  "test": {
    "name": "unit test",
    "timestamp": 1441286777.499345,
    "source": {
      "os": "linux3.13.0-48-generic",
      "python": "Cpython",
      "timestamp": 1441286769.820252,
      "source": {
        "name": "Pulse block",
        "timestamp": 1441284205.602198,
        "bucket": "akyle-pulse-logger",
        "source": {
          "count": 18220475,
          "name": "pulse.mozilla.org",
          "sent": 1441255343,
          "id": 18220475
        }
      },
      "type": "aggregation",
      "id": 182553
    },
    "type": "join",
    "id": 14,
    "name": "plain-chunked_raw.log"
  },
  "duration": 7.638665000000002,
  "type": "join",
  "id": 179,
  "revision": "bed2886f2ba55f32ac8792944c1ca822797cf7e3"
}
```

```
"repo": {
  "changeset": {
    "files": [
      "js/src/vm/HelperThreads.cpp",
      "js/src/vm/HelperThreads.h",
      "js/src/vm/Runtime.cpp"
    ],
    "description": "Bug 1201051 - Make t...
    "author": "Jon <replaced@mozilla.com,
    "id12": "550e06c1615f",
    "date": 1441278480,
    "id": "550e06c1615f82cc82278873f8137...
  },
  "index": 260643,
  "parents": "21e229c5ff708285d9e2c837c967...
```


Test Result Document

```
{
  "id": "182553:18220451.14.179",
  "result": {
    "status": "OK",
    "stata": {
      "action": {
        "test_status": 432
      },
      "fail": 6,
      "pass": 426
    },
    "ok": false,
    "start_time": 1441284018.565,
    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.021,
    "duration": 17.473999977118166,
    "end_time": 1441284036.039,
    "subtests": [
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 0,
        "timestamp": 1441284033.645,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      },
      {
        "status": "fail",
        "ok": false,
        "name": "checking button0 default",
        "ordering": 1,
        "timestamp": 1441284034.381,
        "subtest": "checking button0 default",
        "expected": "pass",
        "message": "got false, expected true"
      }
    ]
  },
  "run": {
    "files": {
      "url": "http://mozilla-releng-blobs.s3.amazonaws.com/blobs/mozilla-inbound/sha512/e6c834818fbaad05043c7dc5ec7dcd00b2433ea9dcfa0217bd99a3ae40daacfd74c9225a7a8945d3ae0248a51ffc6460bc7da97a4959227cfca1dc1f93",
      "name": "plain-chunked_raw.log"
    },
    "status": 1,
    "stata": {
      "status": { "skip": 18, "ok": 636 },
      "ok": 633,
      "lines": 3705,
      "start_time": 1441283166.06,
      "bytes": 869394,
      "action": {
        "test_status": 617,
        "log": 1718,
        "process_exit": 30,
        "process_start": 30
      },
      "end_time": 1441284124.884,
      "duration": 958.824000120163,
      "total": 654
    },
    "buildbot_status": "Warnings",
    "timestamp": 1441284143,
    "chunk": 5,
    "tails": false,
    "machine": {
      "os": "ubuntu64_vm",
      "name": "tat-linux64-apt-1771"
    },
    "key": "build.mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5.53_log_uploaded",
    "suite": "mochitest",
    "insertion_time": 1441284143,
    "job_number": 53,
    "logurl": "http://ftp.mozilla.org/pub/mozilla.org/firefox/tinderbox-builds/mozilla-inbound-linux64-pgo/1441279802/mozilla-inbound_ubuntu64_vm_test_pgo-mochitest-5-bm122-tests1-linux64-build53.txt.gz"
  },
  "build": {
    "product": "firefox",
    "revision12": "550e06c1615f",
    "name": "Ubuntu VM 12.04 x64 mozilla-inbound pgo test mochitest-5",
    "url": "https://queue.taackcluster.net/v1/task/761vwMmQUM6IA3Y229a/artifacts/public/build/firefox-43.0a1.en-US.linux-x86_64.tar.bz2",
    "platform": "linux64",
    "branch": "mozilla-inbound",
    "date": 1441284602,
    "release": "production",
    "locale": "en-US",
    "type": "pgo",
    "id": "20150903043002",
    "revision": "550e06c1615f82cc82278873f8137edbdd0c3ca"
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      "author": "Don replaced@mozilla.com",
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        "timestamp": 1441284205.602198,
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        "source": {
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          "name": "pulse.mozilla.org",
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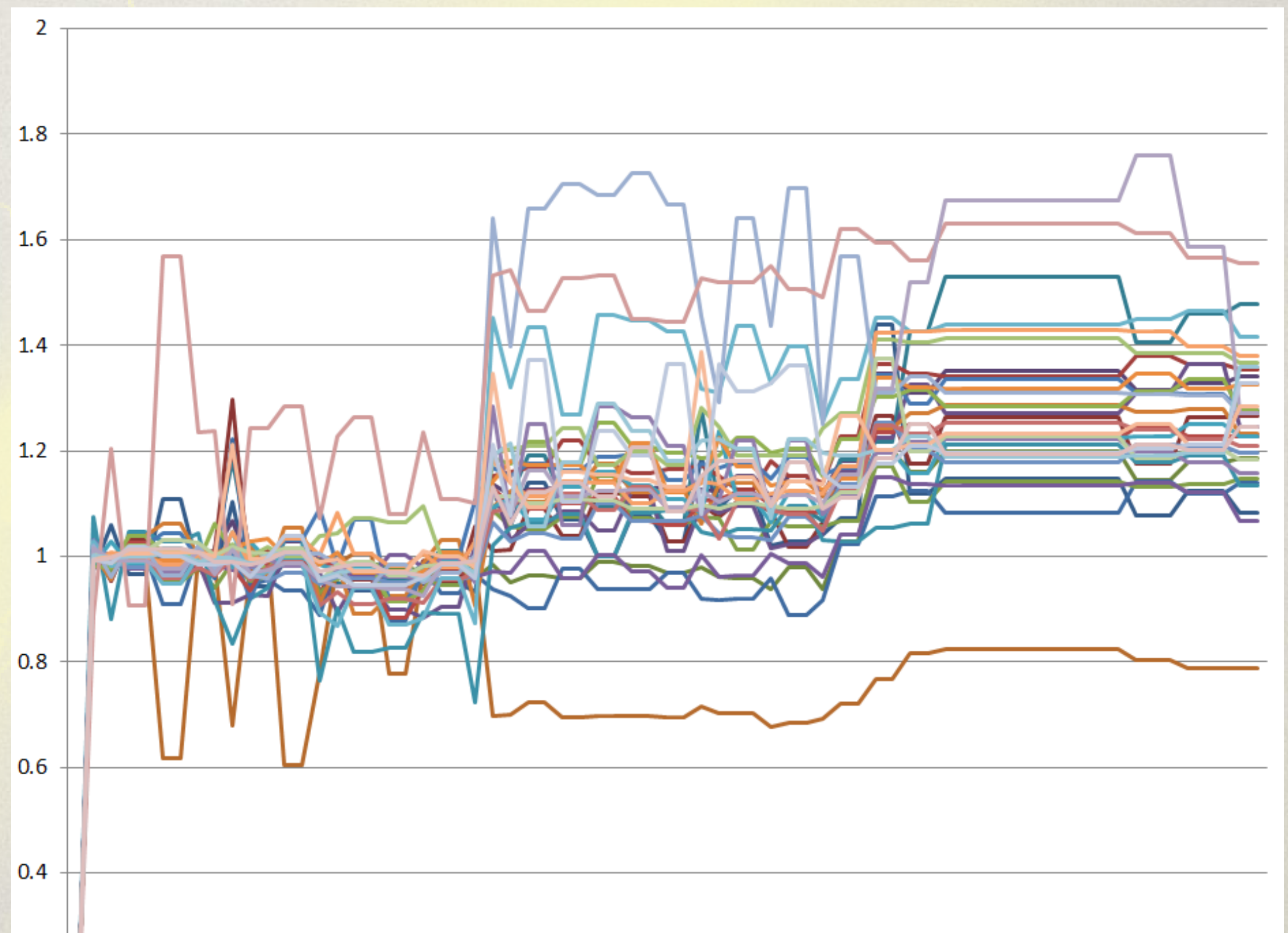

Test Result Document

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    "ok": false,
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    "test": "toolkit/components/prompts/test/test_modal_prompts.html",
    "result": "OK",
    "expected": "OK",
    "last_log_time": 1441284036.022,
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        "expected": "pass",
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        "ok": false,
        "name": "checking button0 default",
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        "message": "got false, expected true"
      }
    ]
  },
  "run": {
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      "name": "plain-chunked_raw.log"
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      "lines": 3705,
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      "action": {
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        "js/src/vm/HelperThreads.h",
        "js/src/vm/Runtime.cpp"
      ],
      "description": "Bug 1201051 - Make helper thread initialization report errors rather than crashing r=terrence",
      "author": "Don Redmond<mozilla.com>",
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    "timestamp": 1441286777.499345,
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      "python": "CPython",
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      "source": {
        "name": "Pulse block",
        "timestamp": 1441284205.602198,
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        "source": {
          "count": 18220475,
          "name": "pulse.mozilla.org",
          "sent": 1441255343,
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        "type": "aggregation",
        "id": 182553
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      "type": "join",
      "id": 14,
      "name": "plain-chunked_raw.log"
    },
    "duration": 7.638665000000002,
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    "revision": "bed288f2ba55f32ac8792944c1ca822797cf7e3"
  }
}
```

```
"etl": {
  "name": "unittest",
  "timestamp": 1441286777.499345,
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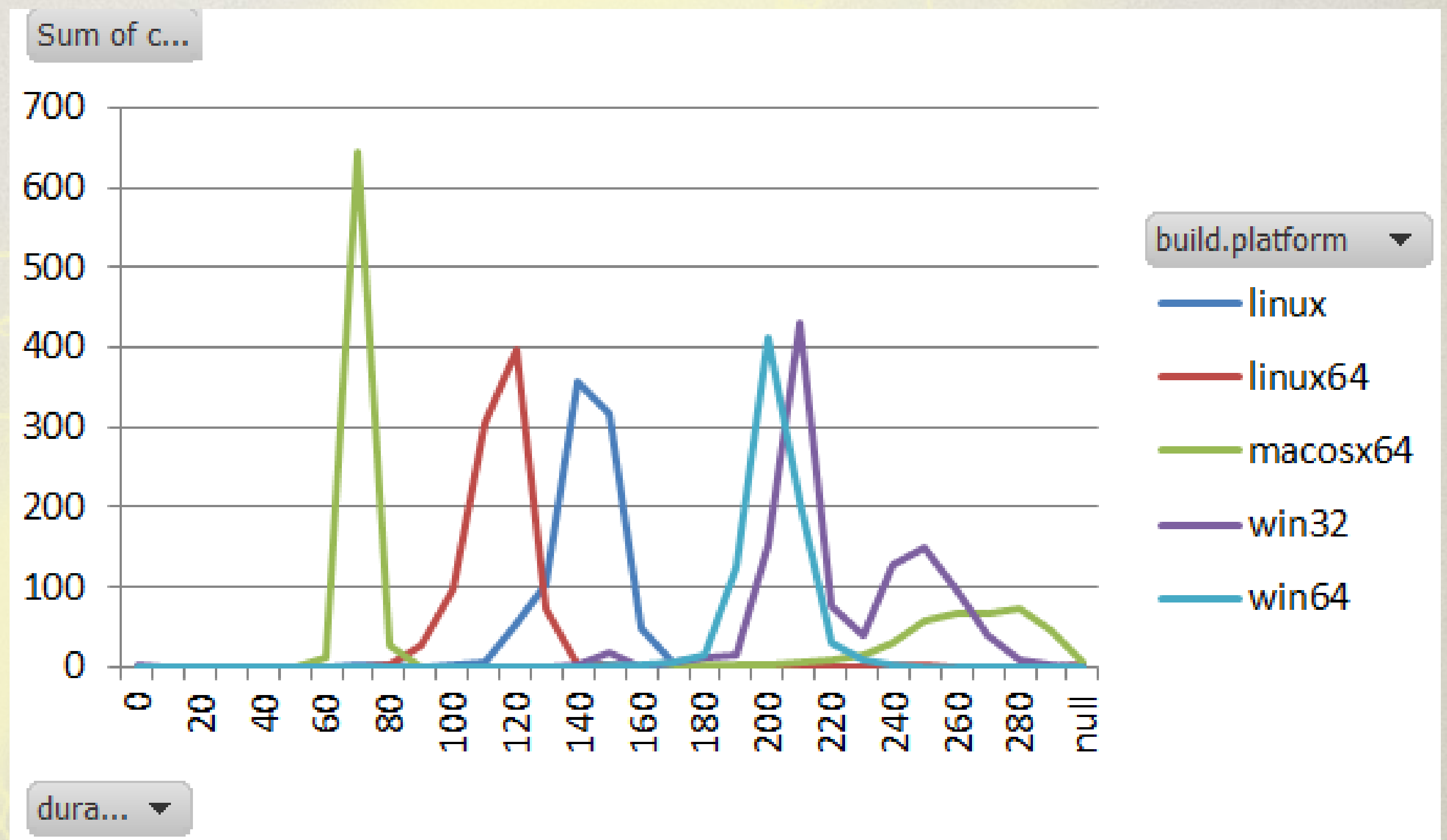

Examples

- Identify change in test times



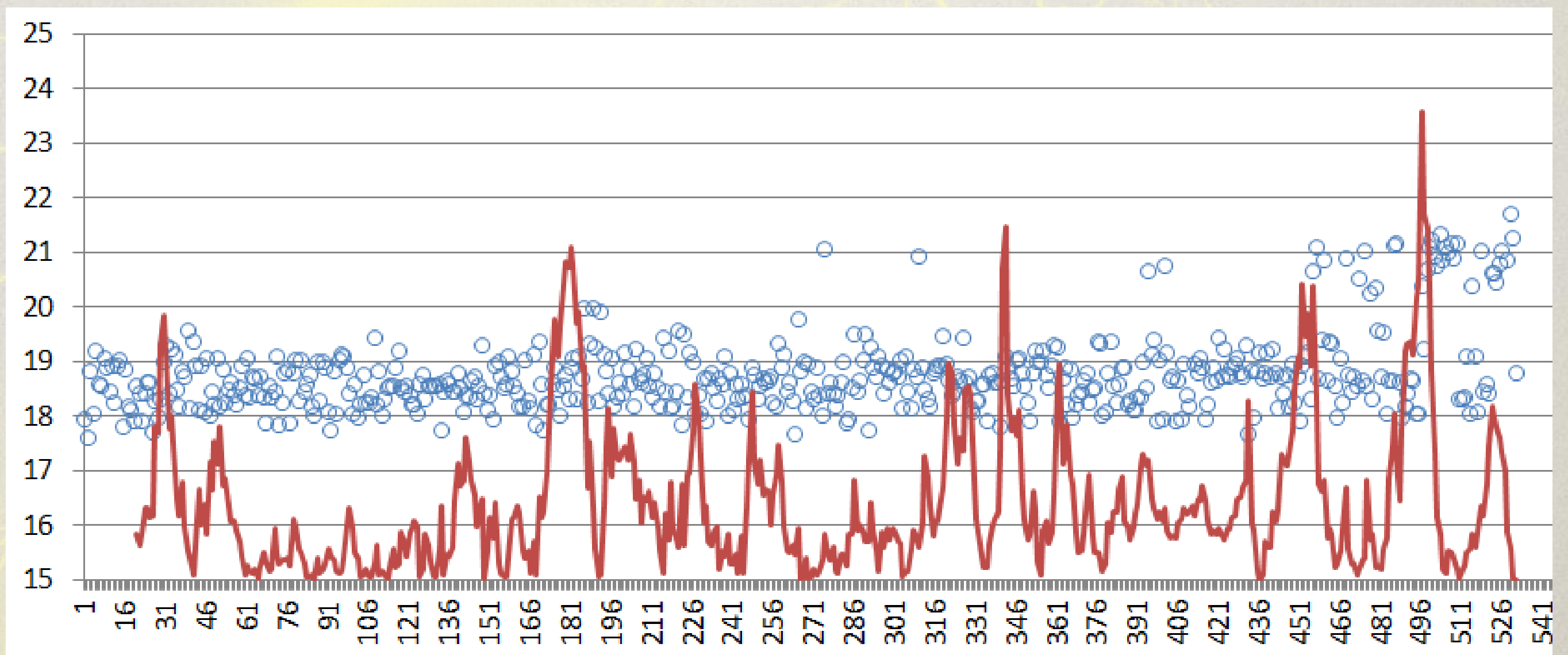
Examples

- Identify change in test times
- Test-time distributions



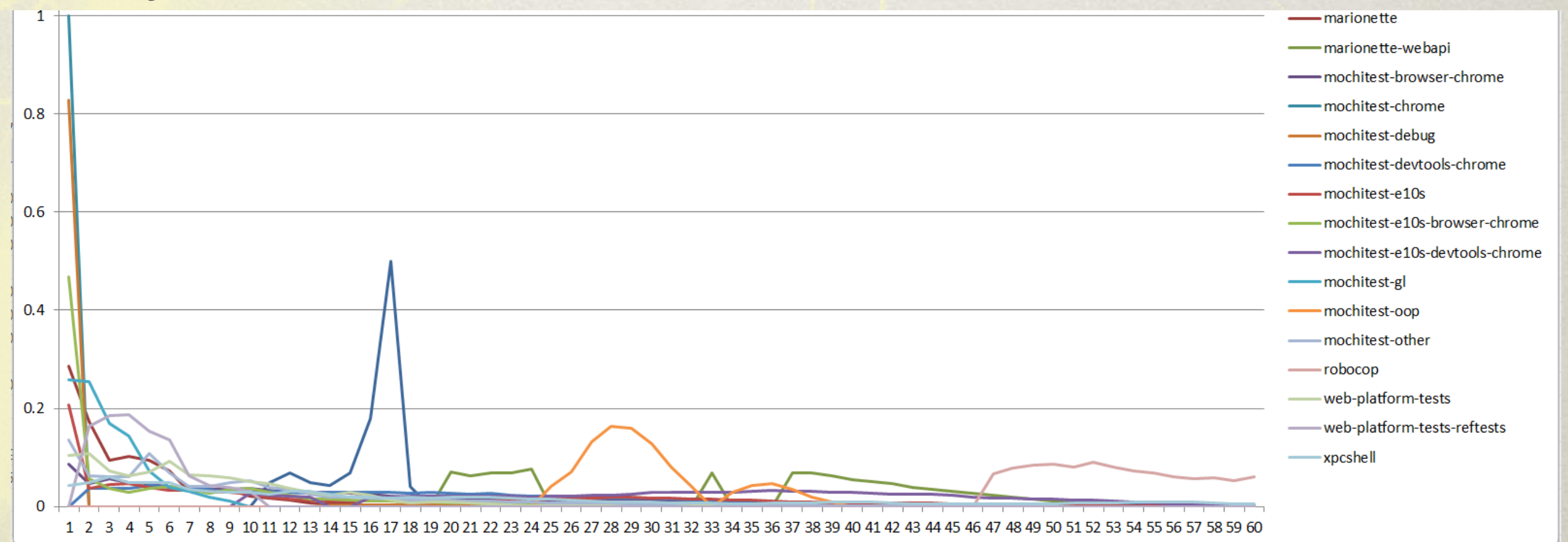
Examples

- Identify change in test times
- Test time distributions
- Visualize perf regression



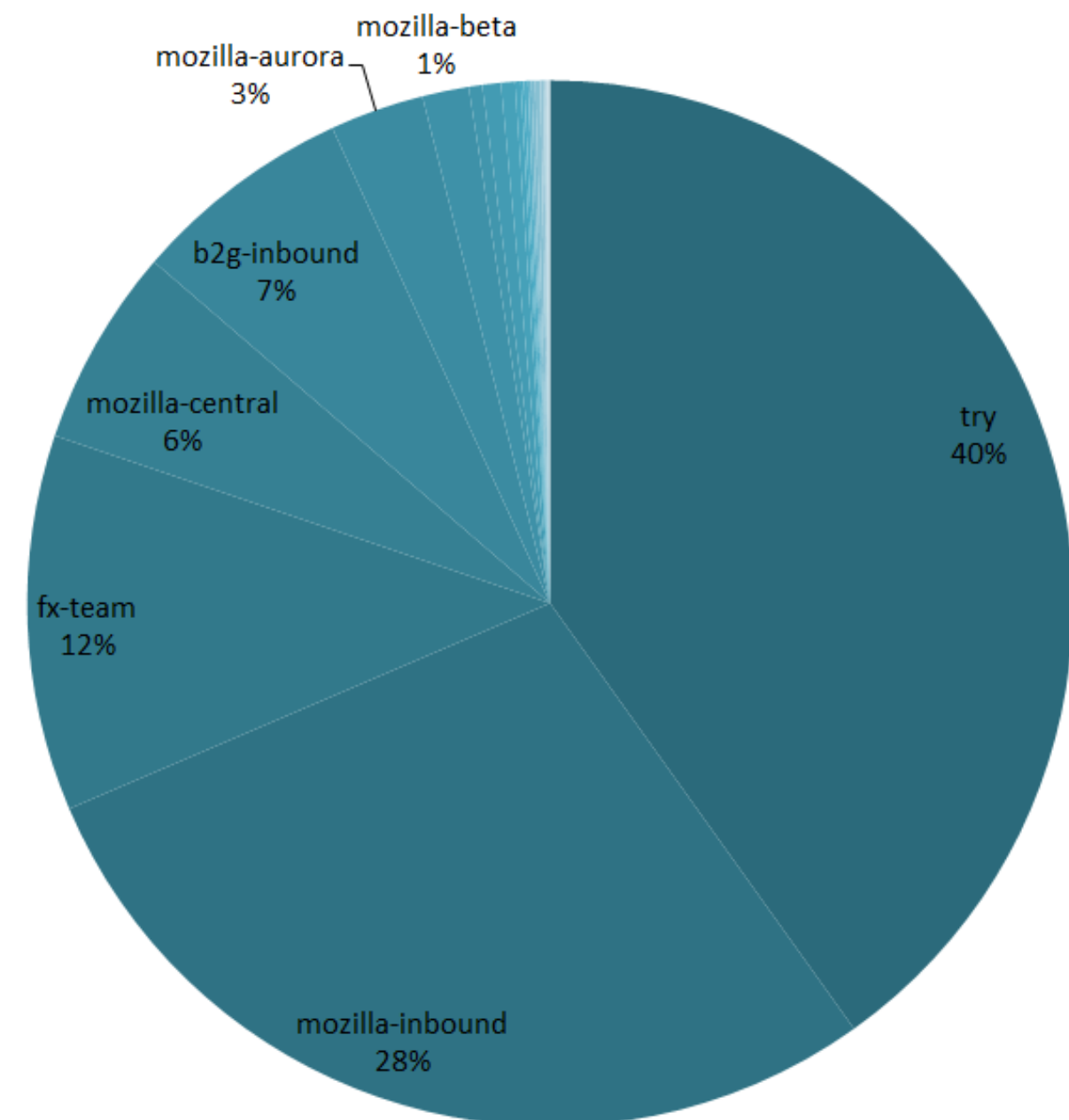
Examples

- Identify change in test times
- Test time distributions
- Visualize perf regression
- Fail rate by time into suite



Examples

- Identify change in test times
- Test time distributions
- Visualize perf regressions
- Fail rate by time into success
- CPU time by Branch



Active Data

<http://activedata.allizom.org>

Kyle Lahnakoski
Engineering Productivity