

Offset	Topic
00:17	<ul style="list-style-type: none"> <li>• <b>Intro</b> <ul style="list-style-type: none"> <li>• Free comic day               <ul style="list-style-type: none"> <li>• Rushed because of movie</li> <li>• Kids only picked up a few titles</li> <li>• Returned today for a little more perusing</li> <li>• Shop still had free table out</li> <li>• I picked up Supreme Power, Rising Star</li> <li>• Read first volume of Supreme Power, enjoying</li> </ul> </li> <li>• Iron Man               <ul style="list-style-type: none"> <li>• Ultimate techie hero</li> <li>• Safe for younger kids despite rating</li> <li>• When hero returns to middle east, gets a bit intense</li> <li>• Otherwise, comparable to Transformers</li> <li>• We all enjoyed it thoroughly</li> <li>• For a two hour movie, felt way shorter, very well paced</li> </ul> </li> </ul> </li> </ul>
05:48	<ul style="list-style-type: none"> <li>• <b>Security Alerts</b></li> </ul>
06:07	<ul style="list-style-type: none"> <li>• EULAs for malware       <ul style="list-style-type: none"> <li>• <a href="http://arstechnica.com/news.ars/post/20080428-malware-authors-turn-to-eulas-to-protect-their-work.html">http://arstechnica.com/news.ars/post/20080428-malware-authors-turn-to-eulas-to-protect-their-work.html</a></li> <li>• Consistent with increasing commercialization of malware</li> <li>• Researchers discovered this in help section of Zeus malware</li> <li>• Malware with help?</li> <li>• Forbids use with other botnets</li> <li>• Precludes source code examination or sending to antivirus companies</li> <li>• Also claims to lock user into paying for upgrades</li> <li>• Aimed at spammers, others not at the infected system</li> <li>• Enforcement seems to be through withdrawal of technical support</li> <li>• Also threat of author sending code to antivirus makers</li> <li>• Latter seems particular effective, guts the customer's ability to use</li> <li>• Most coverage is laughing off</li> <li>• True cannot legally enforce without getting entrapped</li> <li>• But threats are realistic</li> <li>• May just be copying the form to communicate the threats</li> </ul> </li> </ul>
08:51	<ul style="list-style-type: none"> <li>• Security risks of social networking applications       <ul style="list-style-type: none"> <li>• <a href="http://feeds.wired.com/~r/wired/topheadlines/~3/279590114/NOT_SO_PRIVATE">http://feeds.wired.com/~r/wired/topheadlines/~3/279590114/NOT_SO_PRIVATE</a></li> <li>• The problem are the third party applications</li> <li>• MySpace has added its own app platform to compete</li> </ul> </li> </ul>

## Offset

## Topic

- To use apps, you need to share some or all of your profile
- Users are unaccustomed to thinking of these as separate from main provider
- Reality is few if any of these applications are built by provider
- Means much personal data is being spread, without thought
- Providers claim to boot problematic app developers
- It is an honor system, though, so not very strict, secure
- Reality is both providers, app developers benefit from personal data sharing
- Provider gets more apps, draws and keeps more users
- Also enhances page views
- App developers get to embed own ads, building their own revenue
- No one involved has a strong incentive to protect or even react
- Problem ultimately is that even though users guard profiles, unaware of how that gets shared
- No one has been talking about app developers getting access to data

11:58

### • News

12:12

- Hans Reiser found guilty
  - <http://blog.wired.com/27bstroke6/2008/04/reiser-guilty-o.html>
  - Wife, Nina, went missing
  - History of animosity between Hans and Nina
  - Loads on circumstantial evidence
  - Small traces of blood in his car, house
  - Odd behavior
    - Removing his passenger seat, hosing out his car
    - Books on police murder investigation
    - Using counter surveillance techniques
  - Reiser's attempts to explain are classic geek
    - Disbelieving of why he's suspected
    - Didn't get that his own internal logic was not self evident to others
  - Defense tried to use that to their advantage
    - Not so unheard of
    - Asperger is common amongst techies
  - Jury clearly didn't buy it
  - By the end, the judge was antagonistic
  - Complained of Reiser being overly arrogant
  - Hard to know what the jury saw that we didn't
  - From second hand, seems like the case was won on circumstantial evidence, Reiser's demeanor
  - Prosecution did call 60 witnesses, who knows entirely what they said?

## Offset

## Topic

15:40

- Did those witness include anyone else with similar geek personality?
- Man is being sent to prison for 25 to life at least partly because he's too much a geek
- Implementing JVM and Ruby VM in JavaScript
  - <http://rss.slashdot.org/~r/slashdot/eqWf/~3/279591849/article.pl>
  - Reminds me of story from 11/05, Unix in JavaScript
  - <http://thecommandline.net/2005/11/20/unix-in-javascript/>
  - Japanese project called Orto
  - Takes compiled byte code and generates JavaScript
  - Article includes some samples
  - Shows the output is targeted at being interpreter readable
    - Not at all human readable
    - If Java sources are available, though, idea is probably to regenerate from that
  - Surprised that it converted threaded code
  - Author claims the demo was very performant
  - Suspect this is more than a curiosity
  - Seems complementary to GWT
  - GWT compiles Java to JS within the context of a framework
  - This seems to be a more general solution
  - Although its Java support is limited, output only relies in JS interpreter
  - Could easily see this being used for new RIA efforts
  - Ruby is even more interesting
  - This is an actual VM in JS, consumes Ruby opcodes
  - According to article, AJAX call to parse Ruby source to opcodes
  - This is also surprisingly fast
  - Would seem to offer the first ability to do GWT like RIA but with Ruby

19:37

- Tracking down kill switches in ICs
  - <http://spectrum.ieee.org/may08/6171>
  - Stems from an Israel air strike against a Syrian target
  - Syrian radar system mysteriously failed
  - System supposedly used off the shelf components
  - Much speculation that such components had a hidden kill switch or back door
  - An anonymous source claims a European chipmaker has done such a thing
  - Thinking by customer, French government, was to have a way to disable if sold on the black market
  - IEEE Spectrum unable to confirm story
  - Regardless of truth, there is genuine risk
  - Much chip manufacture is now done abroad

- How do you verify security of critical components?
- This is another wrinkle on the secure computing discussion from Penguicon
- We hadn't considered remote kill switches, but same single point of failure
- DARPA has started a project to assess chips
- Early this year, it starts its first live tests with four chips to three contractors
- This is a known malicious attack but otherwise real world
- This is a vast, combinatorial problem
- Article explains how, why it is not feasible to test every element on a chip
- Also has a good description of the history
- How the industry has gone overseas for cost
- Also that DOD used to have its own FAB, shut down in 80s for costs
- DOD now likes the cost, feature advantages of off the shelf
- Cheaper initiatives, trusted foundries, don't solve problem either
- Still possible to slip in bogus design elements, other things that only chip level testing would catch
- The severity of this attack is extreme
- What is the likelihood?
- Even though testing is hugely difficult, the sort of tampering speculated also seems very costly
- Missing link circuit developed
  - <http://arstechnica.com/news.ars/post/20080501-maintaining-moores-law-with-new-memristor-circuits.html>
  - Use three components in electronics: capacitor, resistor and inductor
  - Relate three out of four aspects of electricity
  - In 1971, Leon Chua at Berkely suggested a fourth may be possible
  - Manages missing relation between magnetic flux and charge
  - Math reveals the relationship is not direct, more a function of variable resistance to charge
  - Group at HP adapted technology for oxygen sensors
  - Using similar technology, able to store 100 gigabits on a single die in one square centimeter
  - Surpasses flash and approaches traditional hard disks
  - Competing with IBM's race track memory
  - Track memory has unfavorable thermal problems, though
  - May scale up to terabits per square inch
  - Memristance, relation between magnetic flux and charge, may improve at smaller scales, higher thermal loads
  - Possible to build analog processors, like neural nets
  - May help overcome issues with decreasing die sizes

<u>Offset</u>	<u>Topic</u>
	<ul style="list-style-type: none"> <li>• Not sure what the cost to emulate digital computers on analog processor would be though</li> </ul>
28:36	<ul style="list-style-type: none"> <li>• <b>tail -f</b></li> </ul>
28:56	<ul style="list-style-type: none"> <li>• Judge rejects making available claim in Howell <ul style="list-style-type: none"> <li>• <a href="http://techdirt.com/articles/20080429/125025979.shtml">http://techdirt.com/articles/20080429/125025979.shtml</a></li> <li>• This was the case where press misinterpreted RIAA statements</li> <li>• Believed RIAA was saying ripping CDs is illegal</li> <li>• Not relevant to the case, not being claimed specifically</li> <li>• RIAA asked for summary judgement based on making available theory</li> <li>• Judge rejected summary judgement, case will proceed to trial later this year</li> <li>• Otherwise, this is a typical, boiler plate file sharing case</li> <li>• Patry on Howell ruling <ul style="list-style-type: none"> <li>• <a href="http://williampatry.blogspot.com/2008/04/atlantic-recording-corp-v-howell.html">http://williampatry.blogspot.com/2008/04/atlantic-recording-corp-v-howell.html</a></li> <li>• Largely agrees with ruling</li> <li>• Calls judge to task for enabling RIAA's use of MediaSentry</li> <li>• Supports that MediaSentry's downloads alone are sufficient evidence of infringement</li> <li>• Problem is that RIAA authorized downloads, should bar them as evidence of unauthorized use</li> <li>• Burden should rest on RIAA to prove actual infringement by other than its captive investigators</li> <li>• At least judge ruled claims need to be actual transfer</li> </ul> </li> </ul> </li> </ul>
31:24	<ul style="list-style-type: none"> <li>• Radiohead won't repeat free experiment <ul style="list-style-type: none"> <li>• <a href="http://go.theregister.com/feed/www.theregister.co.uk/2008/04/30/radiohead_in_rainbows/">http://go.theregister.com/feed/www.theregister.co.uk/2008/04/30/radiohead_in_rainbows/</a></li> <li>• Many want to interpret this as a failure of experiment</li> <li>• No such wording in Yorke's statement</li> <li>• Simple seems to be realizing it was a moment in time, hard to reproduce</li> <li>• May also have something to do with solid sales of physical CDs</li> <li>• Article also points at combo offerings like NiN Ghosts</li> <li>• The proof will be what they actually do with next album</li> <li>• Even if Radiohead doesn't repeat, doesn't mean anything for the trend as a whole</li> <li>• Many have and are succeeding</li> <li>• This is just one of the more high profile cases</li> </ul> </li> </ul>
33:19	<ul style="list-style-type: none"> <li>• <b>Outro</b></li> </ul>
	<ul style="list-style-type: none"> <li>• Contact me <ul style="list-style-type: none"> <li>• Email to <a href="mailto:feedback@thecommandline.net">feedback@thecommandline.net</a></li> <li>• Web site at <a href="http://thecommandline.net/">http://thecommandline.net/</a></li> <li>• IM to <a href="mailto:command.line@skype">command.line@skype</a></li> </ul> </li> </ul>

## Offset

## Topic

- Listener comment line is 240-949-2638
- del.icio.us tag is "for:cmdln"
- <http://twitter.com/cmdln>
- I'd like to thank libsyn.com for AAC hosting and Wouter de Bie for MP3 hosting
- These notes and the show audio and music are covered by a Creative Commons license
  - <http://creativecommons.org/licenses/by-nc-sa/3.0/us/>
  - Attribution, non-commercial, share alike