

# Security Proportional to Risk (was: IBM Mainframe at home)

*Source:* <http://www.derkeiler.com/Newsgroups/comp.security.misc/2002-03/0153.html>

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*From:* Anne & Lynn Wheeler ([lynn@garlic.com](mailto:lynn@garlic.com))

*Date:* 03/04/02

From: Anne & Lynn Wheeler <[lynn@garlic.com](mailto:lynn@garlic.com)>

Date: Mon, 04 Mar 2002 20:27:24 GMT

Anne & Lynn Wheeler <[lynn@garlic.com](mailto:lynn@garlic.com)> writes:

- > *After that, things still continued on the seven year cycle ... but*
- > *there were two teams, working in parallel producing products*
- > *offset. The 3081 was the "158" team ... the 3090 was the "168" team.*

above from "ibm mainframe at home" thread in a.f.c

<http://www.garlic.com/~lynn/2002d.html#7>

with OT thread drift to "security proportional to risk" thread  
(somewhat e-commerce):

<http://www.garlic.com/~lynn/2001h.html#61> Net banking, is it safe???

in the early 70s there was a trade-secret document theft case regarding disk technology. The assertion was that the "disk clone" business took 12 to 18 months to reverse engineer, duplicate and bring product to market (after initial introduction of new product). The assertion was that the document thefts would potentially allow a clone manufacturer to bring a product to market six months earlier ... representing possibly several tens of billions of dollars in revenue.

somewhere along the way, the judge supposedly raised the "swimming pool attractive hazard" issue (aka pool owner is responsible for bad things that happen in their pool unless they can demonstrate fences and other security measures proportional to determination of trespassers that might find the pool attractive); aka for legal remedy, have to demonstrate security measures proportional to the value of the trade-secret.

For actual disk hardware this was a secure compound with perimeter fence and guards at the gates, patrols inside the compound, secure building with door badge readers, enforced & audited policies about tail-gating, 2nd floor (above ground) machine room with even more restricted badge reader acces. Within the machine room, devices were housed in a "test cell" ... basically a small heavy steel wire mesh

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cage (maybe 5x5x7, reinforce steel floor, heavy steel wire mesh sides & top). Door to cage had combination lock and each cage had unique combination. Lots of audit procedures and patrols to assure that security was being followed. This is somewhat analogous to safe deposit boxes but with more layers of security and constant auditing procedures.

Documents were "candy-stripe" covers with registered confidential classification. Each copy of a document was numbered. Each page of a candy-stripe document had the document copy number embossed in large print on every page (basically faint background but the number was large print essentially filling the whole page) with legend "registered confidential, do not copy/reproduce" on every page (either 3800 background flash or special paper from secure printer).

Each copy was signed out to specific person and that person had to follow a lot of processes protecting the document which were also audited on regular basis. A person having registered confidential documents also had special secure file cabinet for storing the documents, their offices had sporadic audits after hours and there were periodic audits to verify that the person still had possession of the document. Registered confidential document copies tended to number in the tens or at most few hundreds.

For the 3081 there were a whole file drawer of "811" documents (from the date nov. 1978) that were registered confidential and had to demonstrate that every copy of every 811 document was managed with the highest/appropriate security processes. Even at that, there was some leakage and a fairly well publicized industrial espionage case related to 811 documents.

bringing back to merchant e-commerce sites thread ... would an attractive hazard be a defense with regard to hacking e-commerce servers that had insufficient security?

random registered confidential refs:

<http://www.garlic.com/~lynn/2001i.html#30> IBM OS Timeline?

<http://www.garlic.com/~lynn/2001n.html#79> a.f.c history checkup... (was What specifications will the standard year 2001 PC have?)

random attractive hazard refs:

<http://www.garlic.com/~lynn/aadsmore.htm#2527a> RFC 2527 Physical Security Controls Question

<http://www.garlic.com/~lynn/2001d.html#42> IBM was/is: Imitation...

random disk test cell ref:

<http://www.garlic.com/~lynn/94.html#15> cp disk story

<http://www.garlic.com/~lynn/95.html#3> What is an IBM 137/148 ???

<http://www.garlic.com/~lynn/96.html#18> IBM 4381 (finger-check)

<http://www.garlic.com/~lynn/97.html#15> OSes commerical, history

<http://www.garlic.com/~lynn/99.html#31> Old Computers

<http://www.garlic.com/~lynn/99.html#54> Fault Tolerance

<http://www.garlic.com/~lynn/2000.html#9> Computer of the century  
<http://www.garlic.com/~lynn/2000c.html#69> Does the word "mainframe" still have a meaning?  
<http://www.garlic.com/~lynn/2000c.html#72> Does the word "mainframe" still have a meaning?  
<http://www.garlic.com/~lynn/2001h.html#19> checking some myths.  
<http://www.garlic.com/~lynn/2001l.html#13> mainframe question  
<http://www.garlic.com/~lynn/2001l.html#32> mainframe question  
<http://www.garlic.com/~lynn/2001n.html#39> 195 was: Computer Typesetting Was: Movies with source code  
<http://www.garlic.com/~lynn/2002.html#10> index searching  
<http://www.garlic.com/~lynn/2002b.html#2> Microcode? (& index searching)  
<http://www.garlic.com/~lynn/2002d.html#0> VAX, M68K complex instructions (was Re: Did Intel Bite Off More Than It Can Chew?)

random 811/3081 references:

<http://www.garlic.com/~lynn/93.html#31> Big I/O or Kicking the Mainframe out the Door  
<http://www.garlic.com/~lynn/94.html#00> Big I/O or Kicking the Mainframe out the Door  
<http://www.garlic.com/~lynn/94.html#43> Bloat, elegance, simplicity and other irrelevant concepts  
<http://www.garlic.com/~lynn/94.html#55> How Do the Old Mainframes Compare to Today's Micros?  
<http://www.garlic.com/~lynn/95.html#3> What is an IBM 137/148 ???  
<http://www.garlic.com/~lynn/95.html#10> Virtual Memory (A return to the past?)  
<http://www.garlic.com/~lynn/98.html#46> The god old days(???)  
<http://www.garlic.com/~lynn/99.html#4> IBM S/360  
<http://www.garlic.com/~lynn/99.html#102> IBM 9020 computers used by FAA (was Re: EPO stories (was: HELP IT'S HOT!!!!))  
<http://www.garlic.com/~lynn/99.html#103> IBM 9020 computers used by FAA (was Re: EPO stories (was: HELP IT'S HOT!!!!))  
<http://www.garlic.com/~lynn/99.html#112> OS/360 names and error codes (was: Humorous and/or Interesting Opcodes)  
<http://www.garlic.com/~lynn/99.html#190> Merced Processor Support at it again  
<http://www.garlic.com/~lynn/2000.html#78> Mainframe operating systems  
<http://www.garlic.com/~lynn/2000b.html#38> How to learn assembler language for OS/390 ?  
<http://www.garlic.com/~lynn/2000b.html#65> oddly portable machines  
<http://www.garlic.com/~lynn/2000e.html#55> Why not an IBM zSeries workstation?  
<http://www.garlic.com/~lynn/2000e.html#57> Why not an IBM zSeries workstation?  
<http://www.garlic.com/~lynn/2001b.html#35> John Mashey's greatest hits  
<http://www.garlic.com/~lynn/2001b.html#37> John Mashey's greatest hits  
<http://www.garlic.com/~lynn/2001b.html#38> Why SMP at all anymore?  
<http://www.garlic.com/~lynn/2001b.html#62> z/Architecture I-cache  
<http://www.garlic.com/~lynn/2001b.html#69> Z/90, S/390, 370/ESA (slightly off topic)  
<http://www.garlic.com/~lynn/2001b.html#83> Z/90, S/390, 370/ESA (slightly off topic)  
<http://www.garlic.com/~lynn/2001c.html#53> Varian (was Re: UNIVAC – Help ??)  
<http://www.garlic.com/~lynn/2001d.html#66> Pentium 4 Prefetch engine?  
<http://www.garlic.com/~lynn/2001f.html#62> any 70's era supercomputers that ran as slow as today's supercomputers?  
<http://www.garlic.com/~lynn/2001f.html#68> Q: Merced a flop or not?  
<http://www.garlic.com/~lynn/2001j.html#13> Parity – why even or odd (was Re: Load Locked (was: IA64 running out of steam))  
<http://www.garlic.com/~lynn/2001j.html#17> I hate Compaq  
<http://www.garlic.com/~lynn/2001j.html#18> I hate Compaq  
<http://www.garlic.com/~lynn/2001k.html#7> hot chips and nuclear reactors  
<http://www.garlic.com/~lynn/2001l.html#24> mainframe question  
<http://www.garlic.com/~lynn/2001l.html#40> MVS History (all parts)

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<http://www.garlic.com/~lynn/2001l.html#61> MVS History (all parts)  
<http://www.garlic.com/~lynn/2001m.html#23> Smallest Storage Capacity Hard Disk?  
<http://www.garlic.com/~lynn/2001n.html#9> NCP  
<http://www.garlic.com/~lynn/2002.html#5> index searching  
<http://www.garlic.com/~lynn/2002.html#45> VM and/or Linux under OS/390????  
<http://www.garlic.com/~lynn/2002.html#48> Microcode?  
<http://www.garlic.com/~lynn/2002b.html#11> Microcode? (& index searching)  
<http://www.garlic.com/~lynn/2002b.html#20> index searching  
<http://www.garlic.com/~lynn/2002b.html#32> First DESKTOP Unix Box?  
<http://www.garlic.com/~lynn/2002c.html#9> IBM Doesn't Make Small MP's Anymore  
<http://www.garlic.com/~lynn/2002c.html#40> using >=4GB of memory on a 32-bit processor  
<http://www.garlic.com/~lynn/2002c.html#42> Beginning of the end for SNA?  
<http://www.garlic.com/~lynn/2002d.html#7> IBM Mainframe at home

random security proportional to risk refs:

<http://www.garlic.com/~lynn/aadsmore.htm#2527a> RFC 2527 Physical Security Controls Question  
<http://www.garlic.com/~lynn/aadsm6.htm#websecure> merchant web server security  
<http://www.garlic.com/~lynn/aadsm6.htm#terror> [FYI] Did Encryption Empower These Terrorists?  
<http://www.garlic.com/~lynn/aadsm6.htm#terror3> [FYI] Did Encryption Empower These Terrorists?  
<http://www.garlic.com/~lynn/aadsm6.htm#terror5> [FYI] Did Encryption Empower These Terrorists?  
<http://www.garlic.com/~lynn/aadsm6.htm#pcards> The end of P-Cards?  
<http://www.garlic.com/~lynn/aadsm6.htm#pcards3> The end of P-Cards? (addenda)  
<http://www.garlic.com/~lynn/aadsm7.htm#rubberhose> Rubber hose attack  
<http://www.garlic.com/~lynn/aadsm8.htm#rhose17> [Fwd: Re: when a fraud is a sale, Re: Rubber hose attack]  
<http://www.garlic.com/~lynn/aepay7.htm#netbank2> net banking, is it safe?? ... security proportional to risk  
<http://www.garlic.com/~lynn/aepay7.htm#netsecure> some recent threads on netbanking & e-commerce security  
<http://www.garlic.com/~lynn/aepay7.htm#3dsecure2> 3D Secure Vulnerabilities? Photo ID's and Payment Infrastructure  
<http://www.garlic.com/~lynn/aepay7.htm#3dsecure3> financial payment standards ... finger slip  
<http://www.garlic.com/~lynn/aadsm10.htm#cfppki13> CFP: PKI research workshop  
<http://www.garlic.com/~lynn/aadsm10.htm#tamper> Limitations of limitations on RE/tampering (was: Re: biometrics)  
<http://www.garlic.com/~lynn/aadsm10.htm#bio8> biometrics (addenda)  
<http://www.garlic.com/~lynn/2001d.html#42> IBM was/is: Imitation...  
<http://www.garlic.com/~lynn/2001h.html#61> Net banking, is it safe??  
<http://www.garlic.com/~lynn/2001h.html#67> Would this type of credit card help online shopper to feel more secure?  
<http://www.garlic.com/~lynn/2001i.html#53> Credit Card # encryption  
<http://www.garlic.com/~lynn/2001i.html#57> E-commerce security????  
<http://www.garlic.com/~lynn/2001j.html#2> E-commerce security????  
<http://www.garlic.com/~lynn/2001j.html#5> E-commerce security????  
<http://www.garlic.com/~lynn/2001j.html#44> Does "Strong Security" Mean Anything?  
<http://www.garlic.com/~lynn/2001j.html#54> Does "Strong Security" Mean Anything?  
<http://www.garlic.com/~lynn/2001k.html#55> I-net banking security  
<http://www.garlic.com/~lynn/2001l.html#2> Why is UNIX semi-immune to viral infection?

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Anne & Lynn Wheeler | [lynn@garlic.com](mailto:lynn@garlic.com) - <http://www.garlic.com/~lynn/>

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