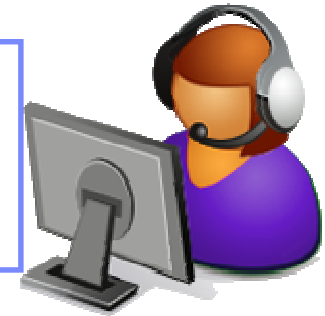


Today

## POWER8 E850 from hands-on experience

Starting at 10:00 am UK time by Nigel Griffiths and Gareth Coates



Smart Meeting → Put questions into the Chat box or AT&T Toll Free phone for better audio

- 0800-368-0638 = UK Toll Free
- 0203-059-6451 = UK but you pay for the call
- Then 6403785# Participant Code
- Other countries see chat box for the website
- Please Mute with \*6



Previous Sessions:  
PowerSC Tools for IBM i  
HMC 8.20 Tech Preview  
The "Key" to IBM i Licensing  
POWER8 E870 from exper  
Linux on Power: Best Pract  
Linux for AIX/IBM i guys  
PowerKVM Deep Dive  
More Tricks Power Masters  
Power8 from hands-on  
Power up your Linux  
PowerVC  
PowerVP  
And more.....

Future Sessions →

- July 22<sup>nd</sup> - Linux on POWER Field Experience
- More Being planned
- Suggestions Welcome



Webinar wiki: <http://tinyurl.com/PowerSystemsTechnicalWebinars>  
Youtube Channel: <http://tinyurl.com/IBMPowerVUGYoutubeChannel>

Twitter: 

Gareth Coates @power\_gaz  
Jyoti Dodhia @JyotiDodhia

Nigel Griffiths @mr\_nmon  
Mandie Quartly @mandieq



# Session 47:

## POWER8 E850 from hands-on experience

POWER Advanced Technology Support  
IBM Europe



Nigel Griffiths



Gareth Coates

## Abstract

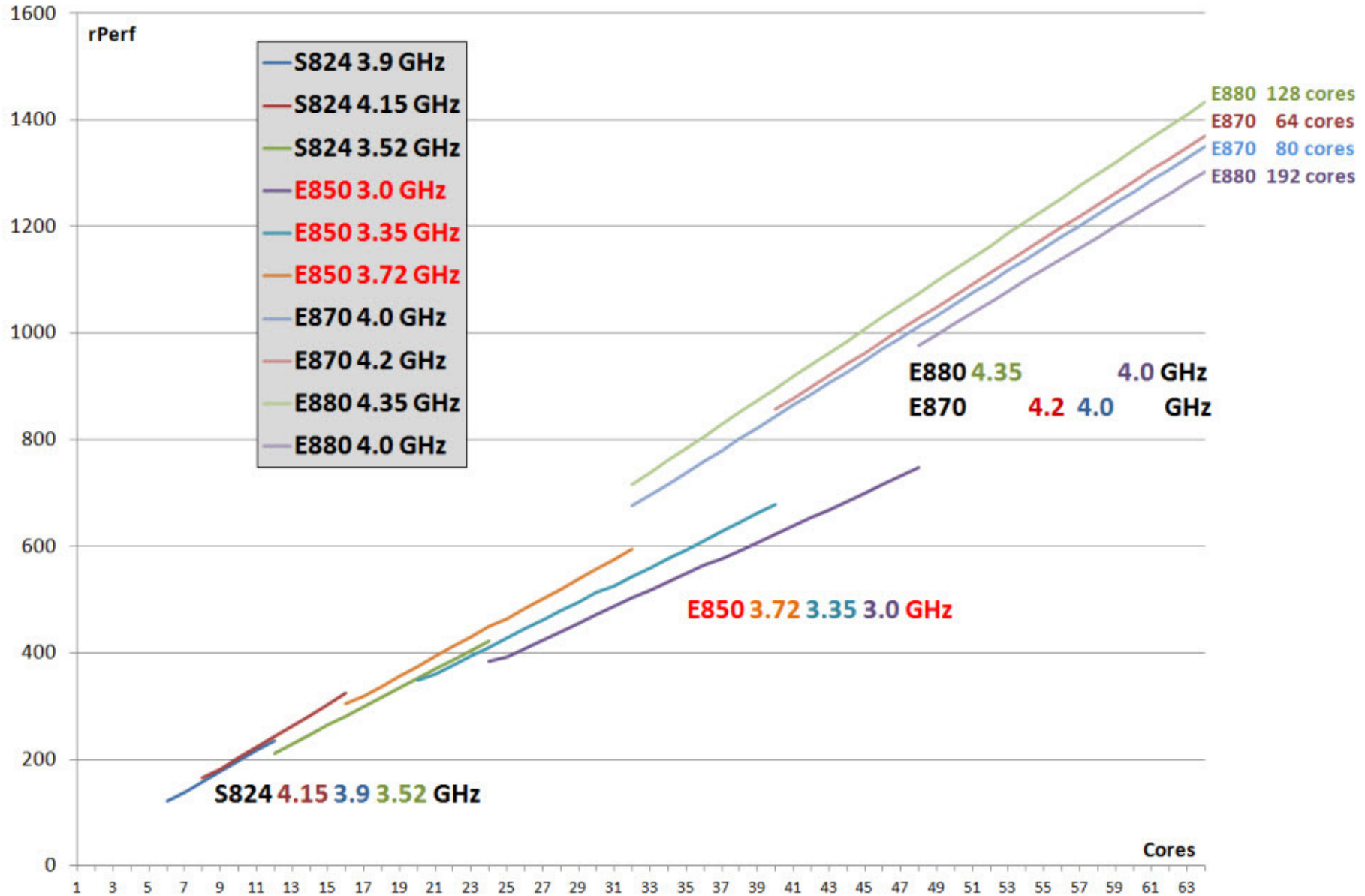
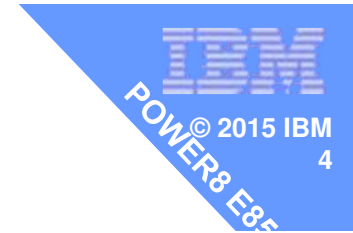
- Be the first to learn about the E850 Power System before it becomes generally available (GA)!
- This session explores what was found during hardware and software testing with loads of pictures and some demonstrations.
- Get to know the machine before it arrives in your computer room because this is going to be a popular configuration and high performance model.

The IBM logo, consisting of the letters 'IBM' in a stylized, bold, sans-serif font, is positioned in the top right corner of the slide. It is part of a blue triangular graphic that also contains copyright and model information.

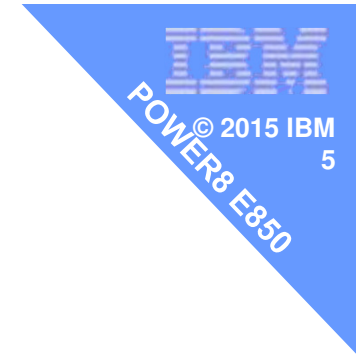
© 2015 IBM  
3

POWER8 E850

# Model Comparison



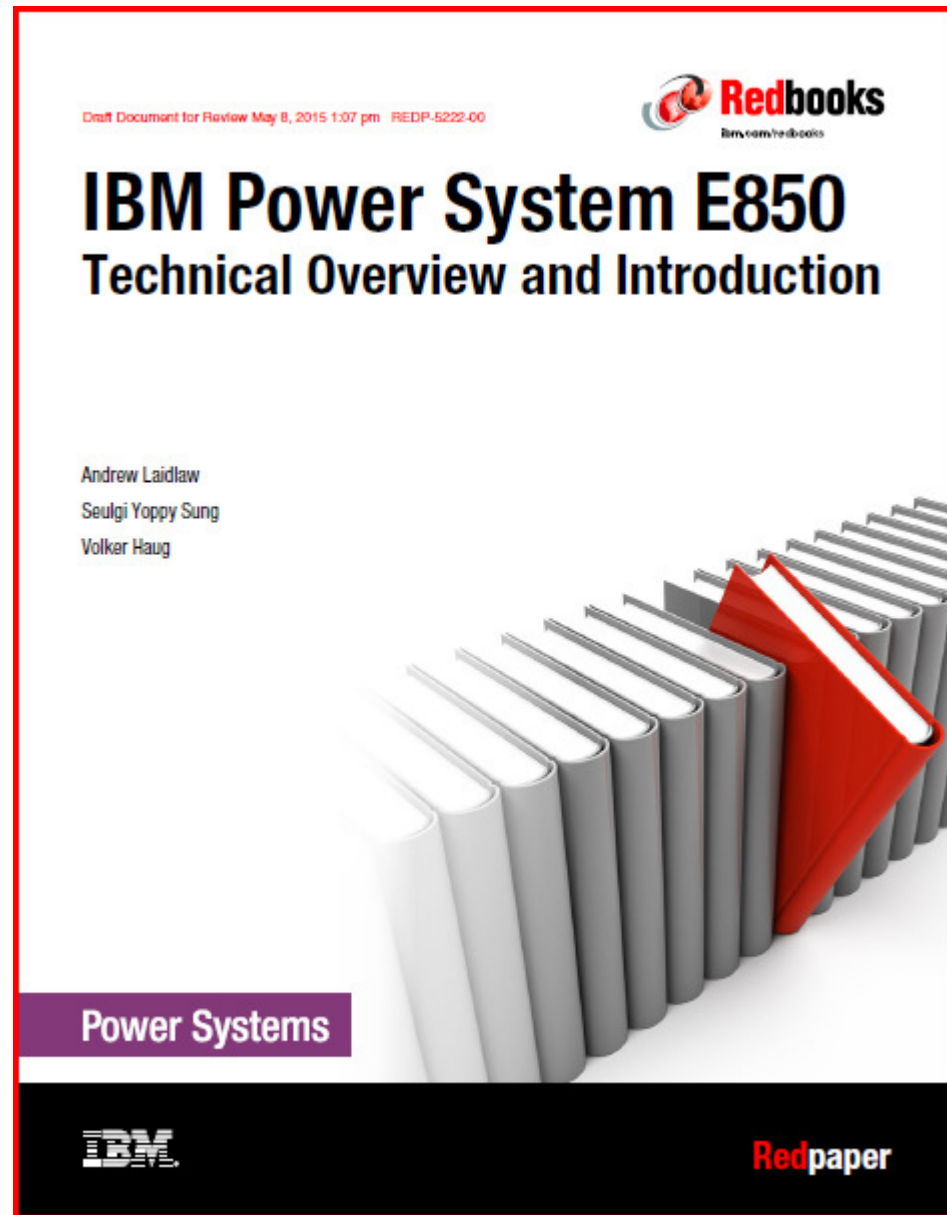
# IBM Power System E850



- **Announcement date** **11<sup>th</sup> May 2015**
- **Planned Availability date** **June 5, 2015**
- Machine type name: IBM Power System E850 server
- Machine type model: 8408-E8E
- **New Style Announcement**
  - [http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_ca/9/877/ENUSZG15-0009/index.html&lang=en&request\\_locale=en](http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/9/877/ENUSZG15-0009/index.html&lang=en&request_locale=en)
- **<http://tinyurl.com/PowerE850announce>**

# Stop Press

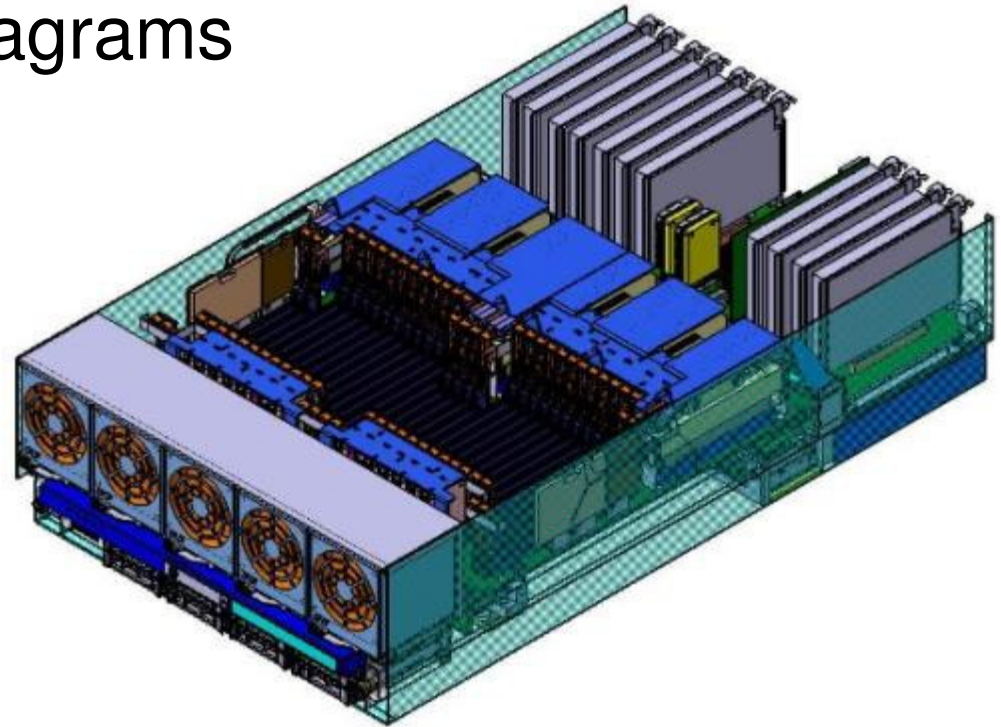
- E850 Redbook
- Just out, 3 week ago
- 200 pages



IBM  
© 2015 IBM  
6  
POWER8 E850

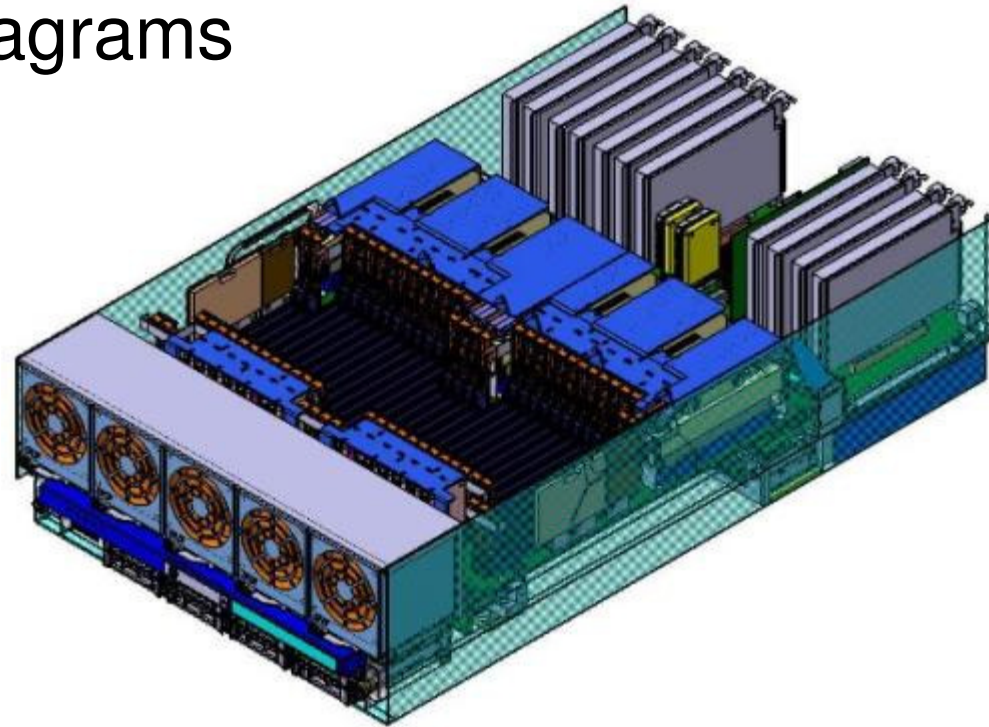
So far:

- We have seen the diagrams



## So far:

- We have seen the diagrams



- But what does it actually look like?
- Is it easy to install?



# Warning

**about pictures and features:**

- This is an early / “proto-type” box
  - Details may differ from Generally Available machines
- Including but not limited to:
  - Packaging
  - Missing labels & Warning stickers
  - Handle colours may be different
  - Air flow barriers may be different

## Early Ship Program – my E850 config

- E850 → 32 cores at **3.72 GHz** using 8 core sockets
- 512 GB memory (32 x 16 GB) plus AME
  
- Split disk backplane RAID Controllers EPVP
  - 4 x 600 GB **10K** Disks ESD5 (got Disks 4 x 146 GB 15K)
  - 4 x 177 GB SSD ESOY (SAS SFF 4K S/S DRIVE)
  
- Adapters (full height for the E850)
  - 4 x ENOK Ethernet adapters (2 x 1Gb + copper 2 x optic)
  - 4 x 5735 Fibre Channel 8 Gb/s
  - 1 x 4 port USB card
  
- EMX0 POWER8 Drawer (full height blind swap)

Going to cover the install of

1. POWER8 I/O Drawer
2. Power E850

## POWER8 I/O Drawer

- Seen already on Power E870 / E880 in 2014
- Now also on the Scale-Out Servers (new option)



E850, EMX0 & cables

**GRAND**

**BISHOPCATE**

**COLLECTION DELIVERY NOTE**

Customer Name  
Address  
City  
State  
Zip

Delivery Date  
Delivery Time

**SHIP TO**

Quantity of Units  
Number of Units

*(Signature)*

GRAND BISHOPCATE

**GRAND**

**DELIVERY NOTE**

Customer Name  
Address  
City  
State  
Zip

Delivery Date  
Delivery Time

Quantity of Units  
Number of Units

*(Signature)*

GRAND BISHOPCATE



Unwrap



Follow the Install Instructions



Open the smaller top box





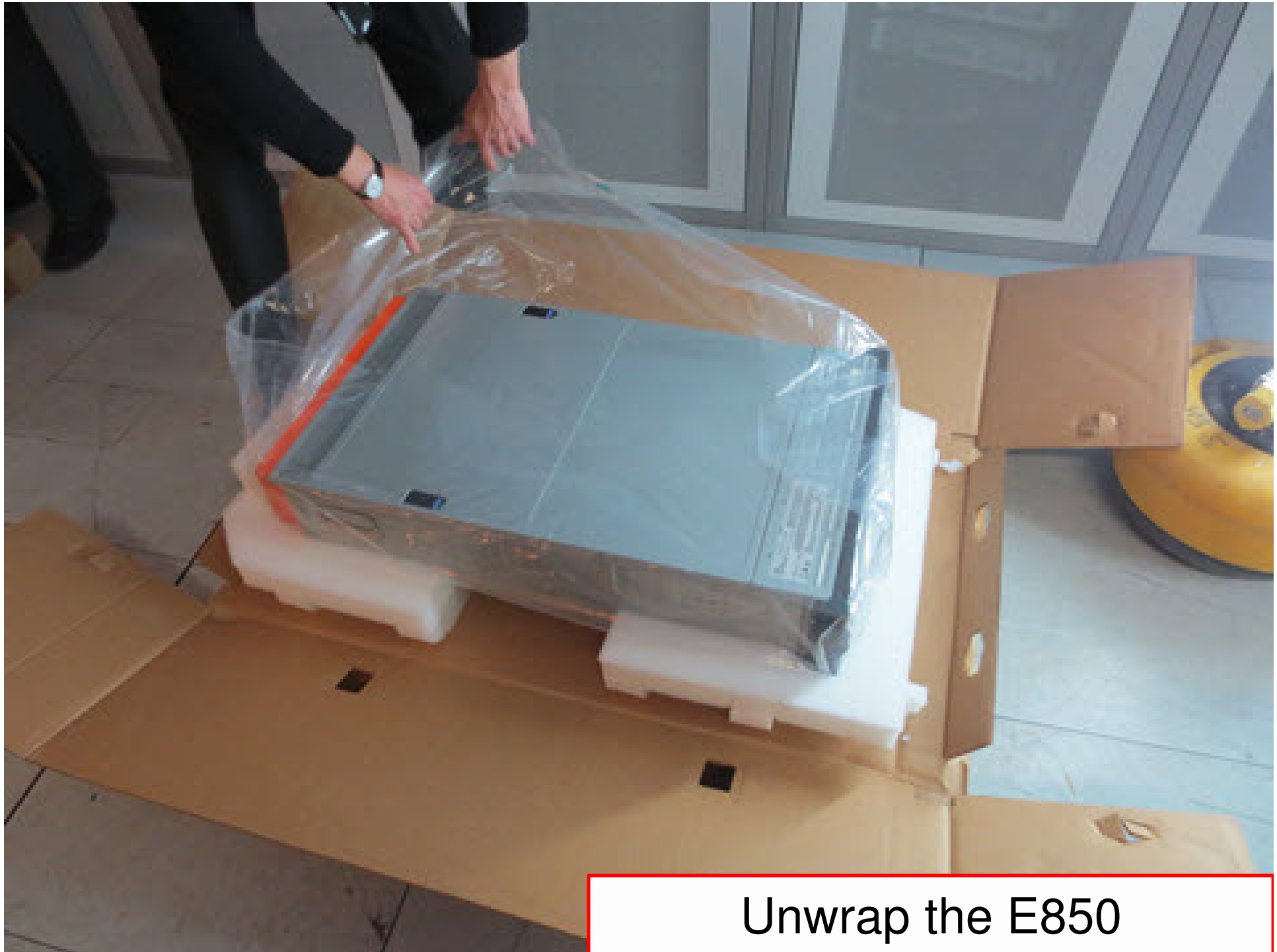
Have we been robbed?



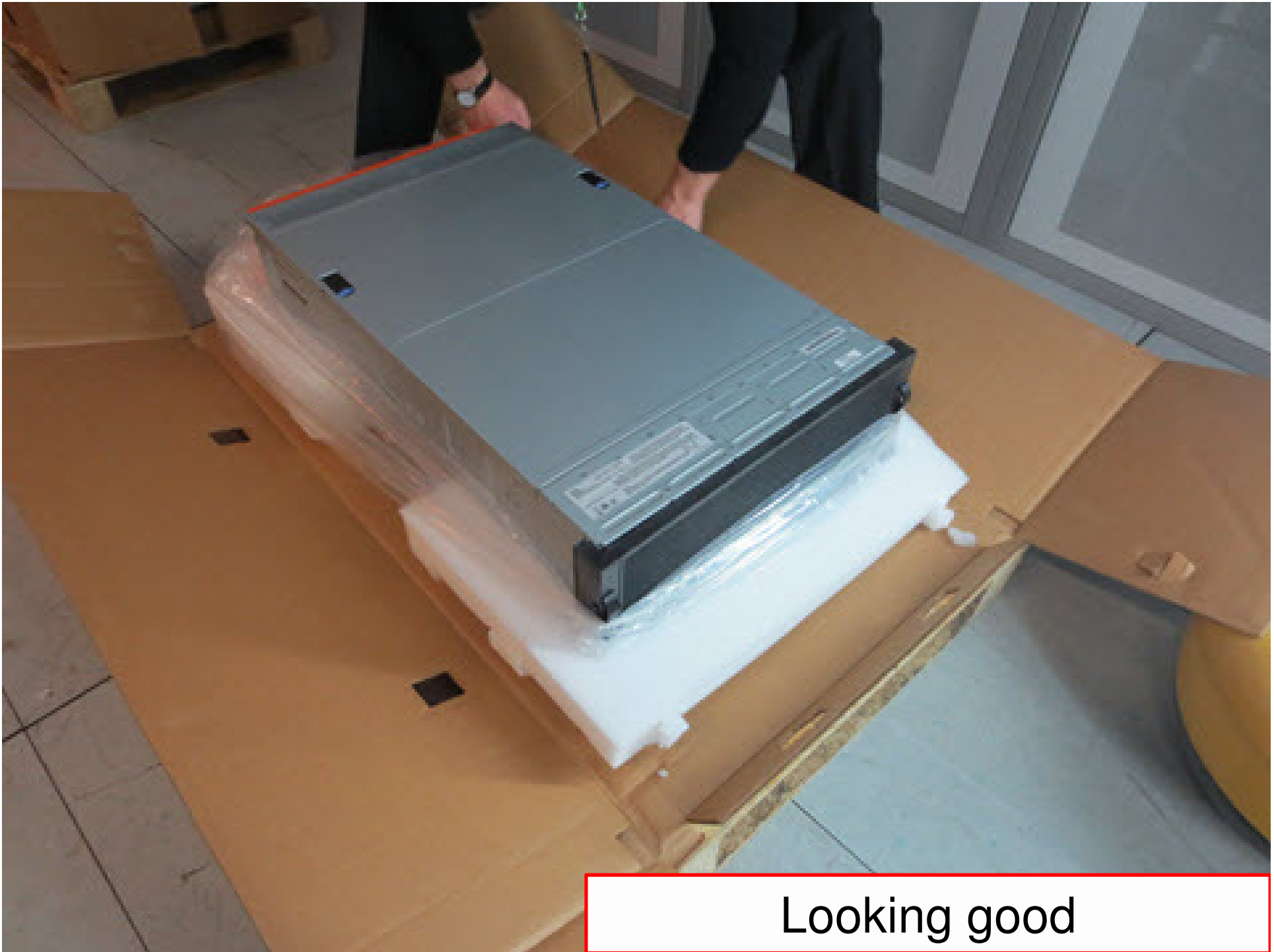
Remove the white clips & lift. Don't cut the sellotape!



Small rails & MASSIVE rails!!



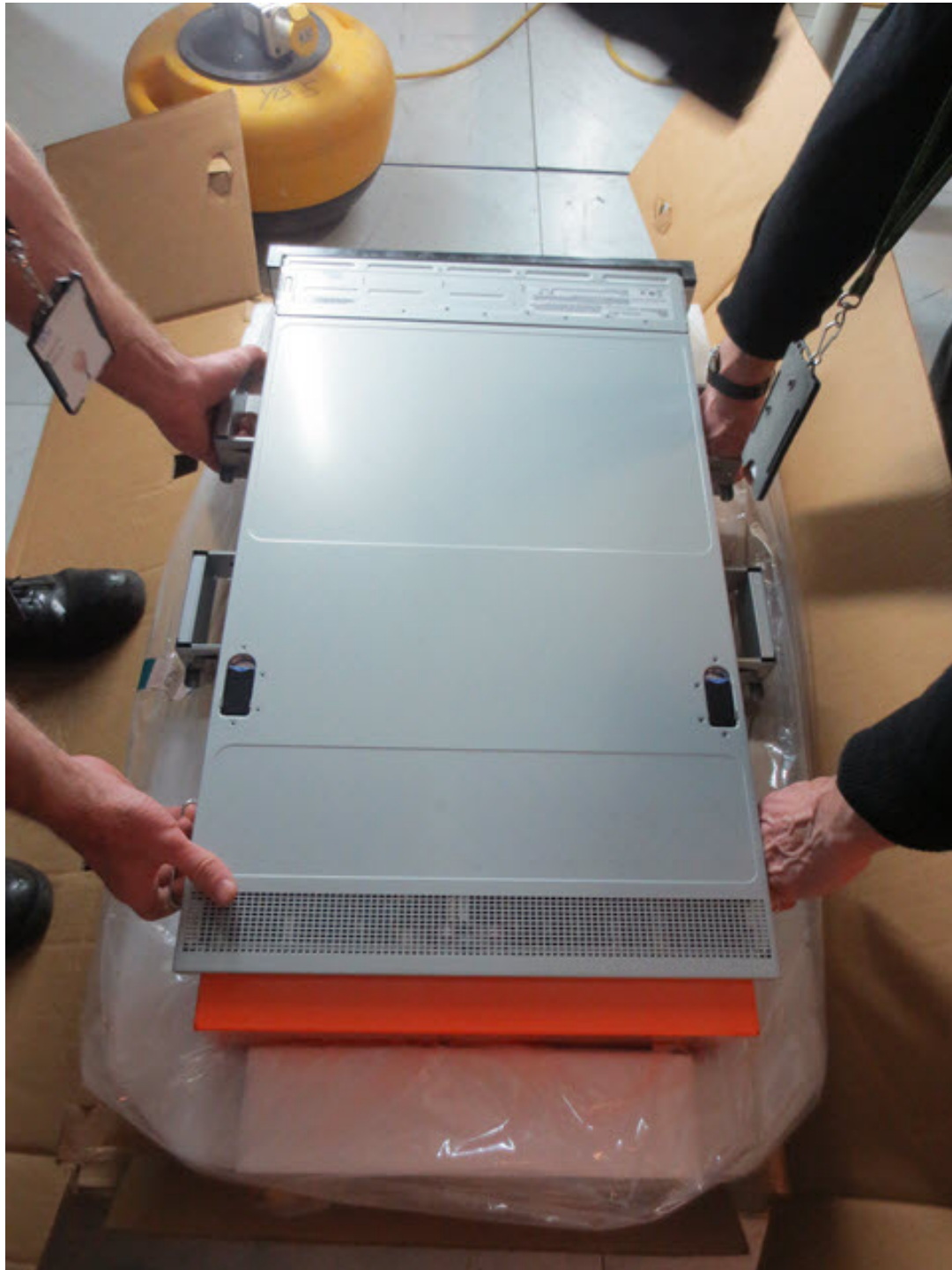
Unwrap the E850



Looking good



Find the handles, push clicks in and raise till they lock



Six handles:  
4 click-on added +  
2 permanent  
=  
Three person lift

It is heavy  
It is very heavy

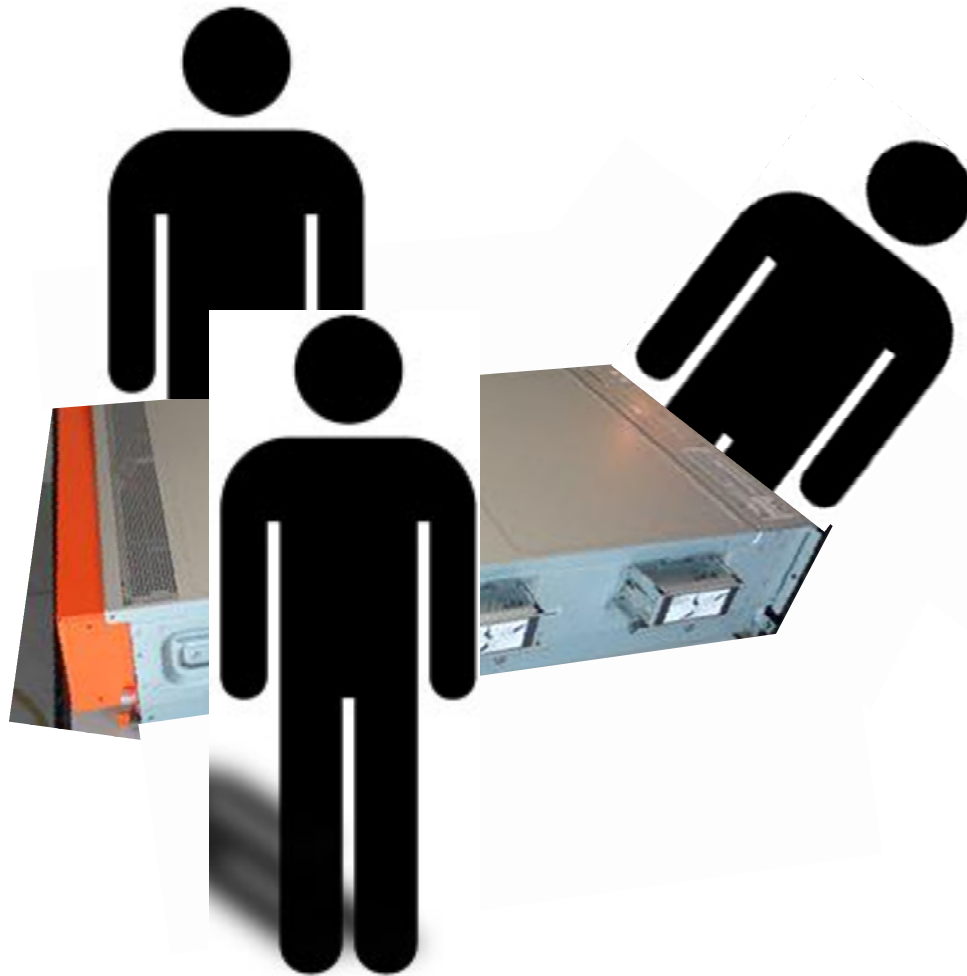
We used 2 Rugby  
Players !!!



We placed it temporarily on a table. Note orange I/O protection



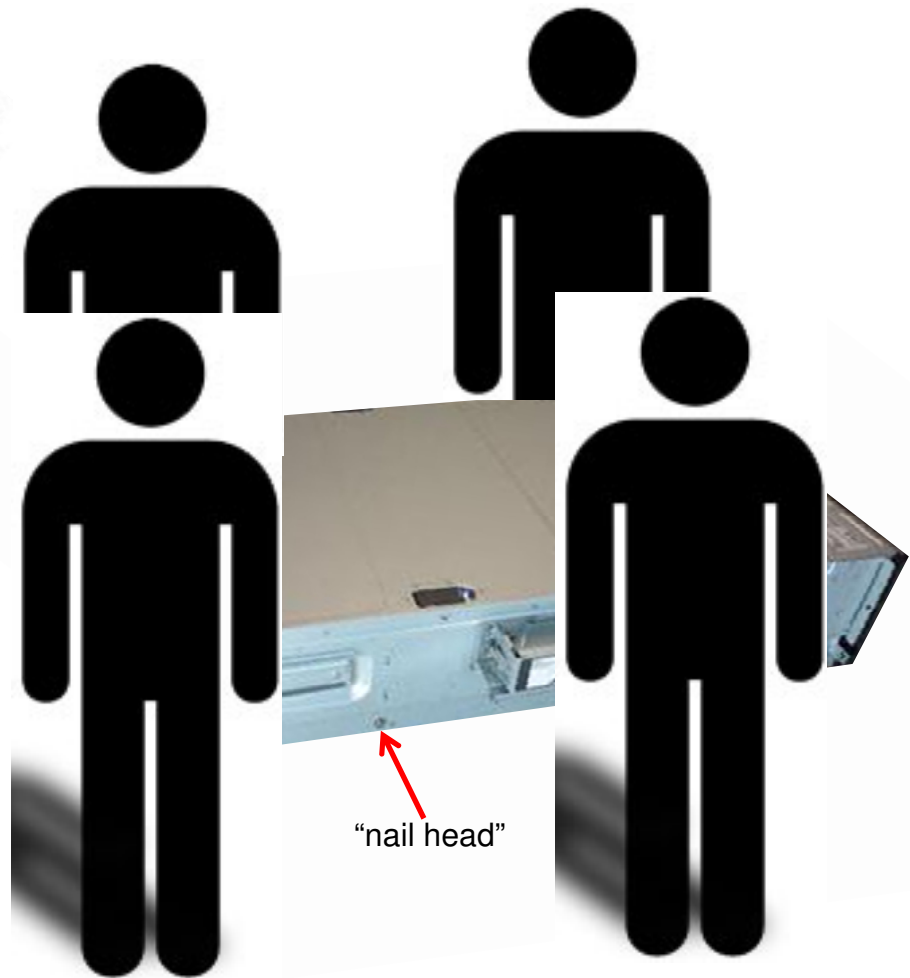
# Official 3 person-lift



Front person tricky as holding both sides

# Off The Record

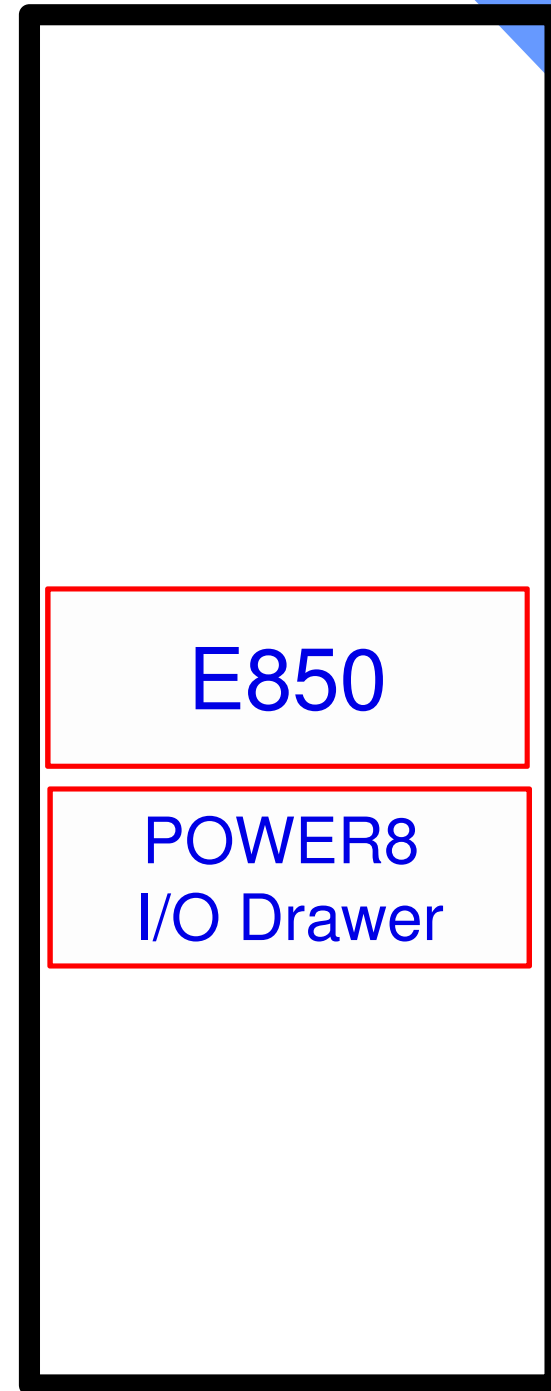
## 4 person a lot easier

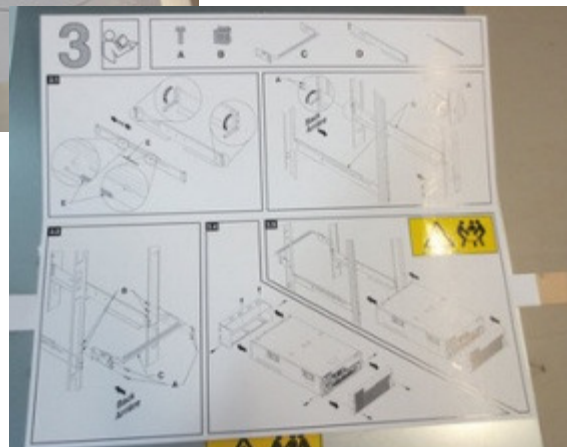
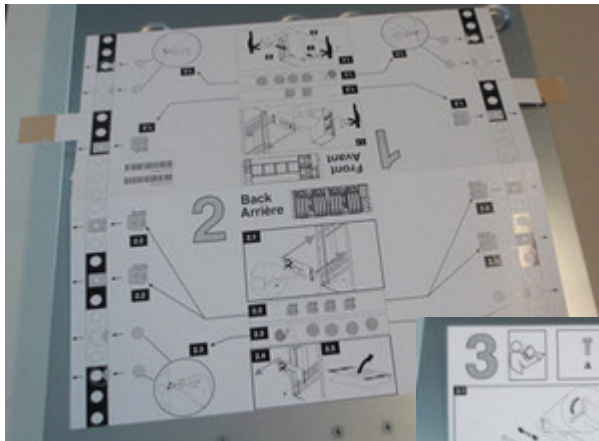


"nail head"



- We decided to have the E850 above the I/O Drawer
- So 1<sup>st</sup> we added the I/O Drawer





EMX has a slide on shelf  
rather than rails  
= very easy to fit

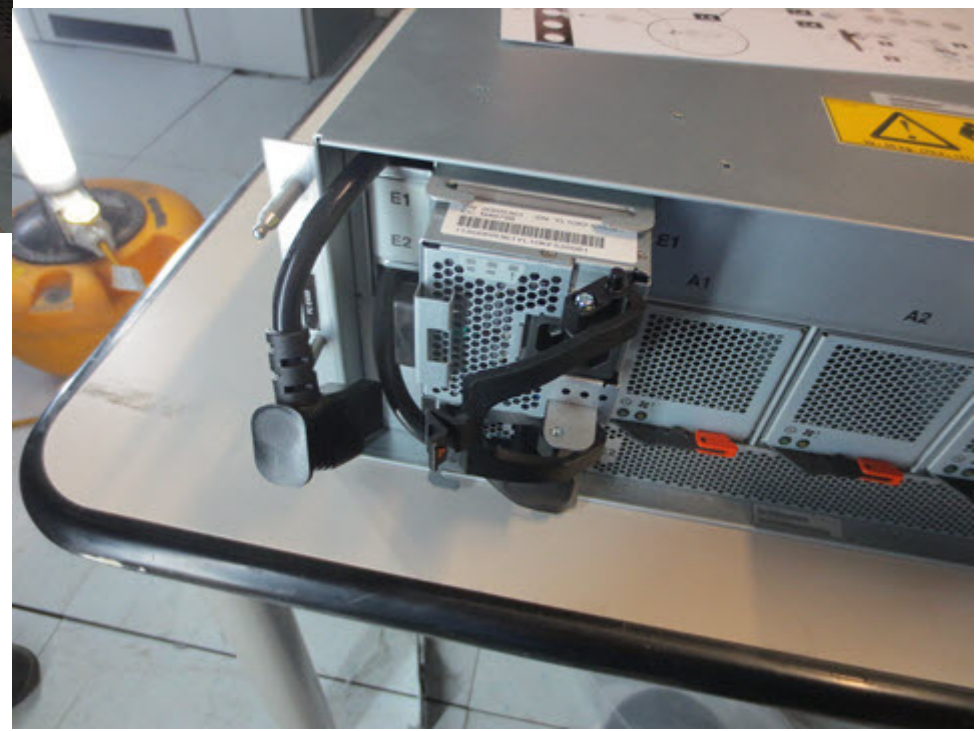
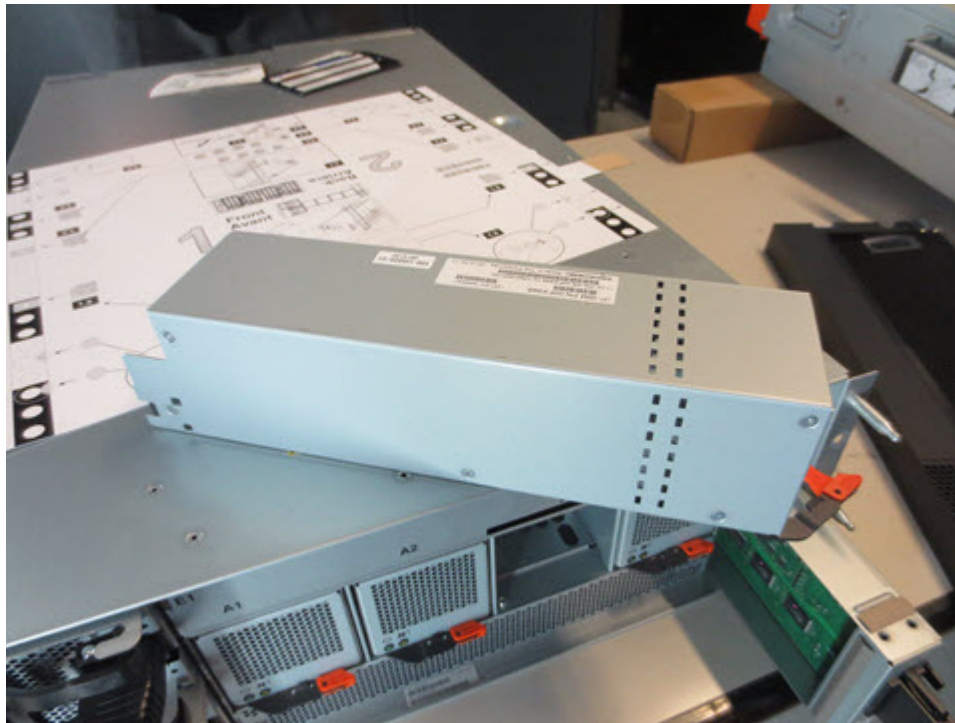


Rear view  
6 adapter slots



Front view  
2 power units +4 fans

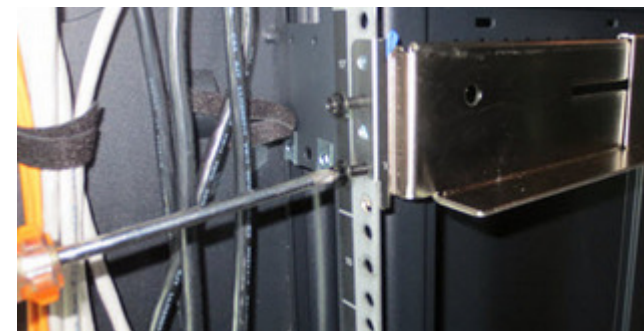
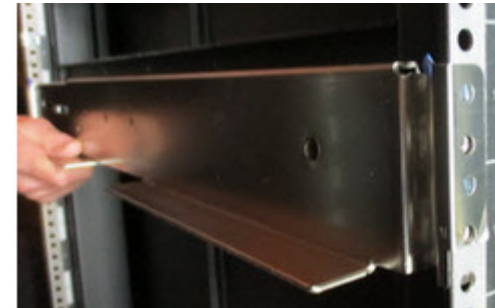
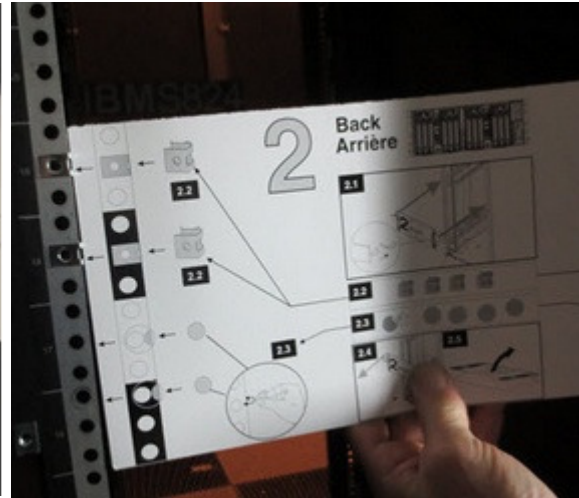
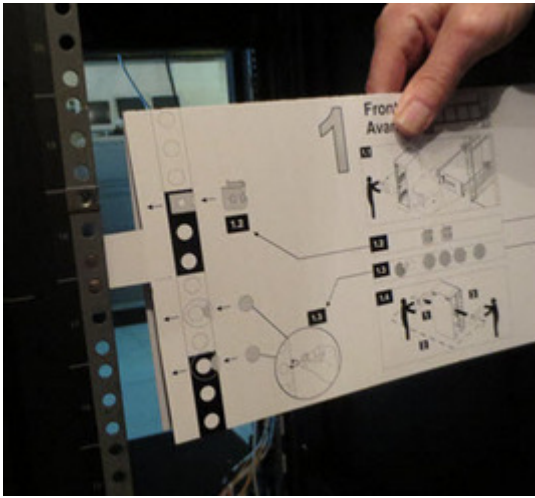
This example has  
only one fan-out module



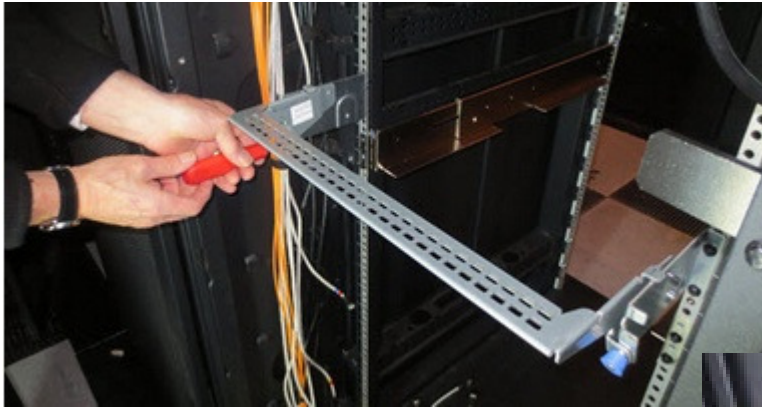
And of course we had to take it apart 😊



ditto



About 20 seconds work



Slide in the drawer & put a few screws in = done!



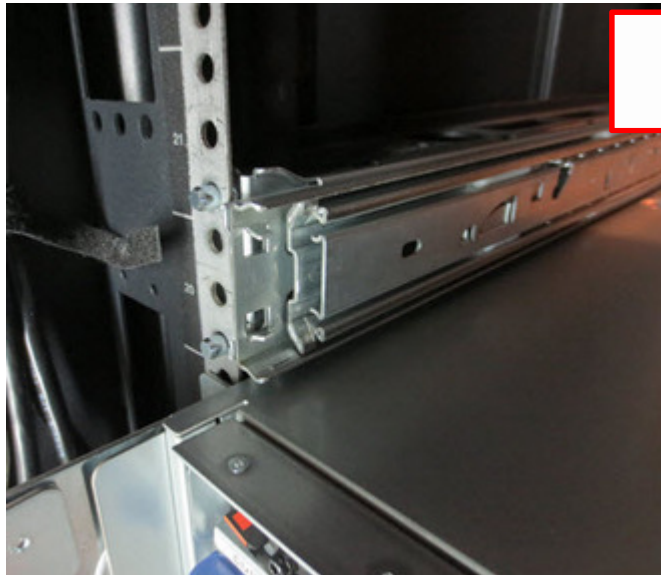
## Back to the E850

The E850 is a customer install machine and they should follow the instructions.

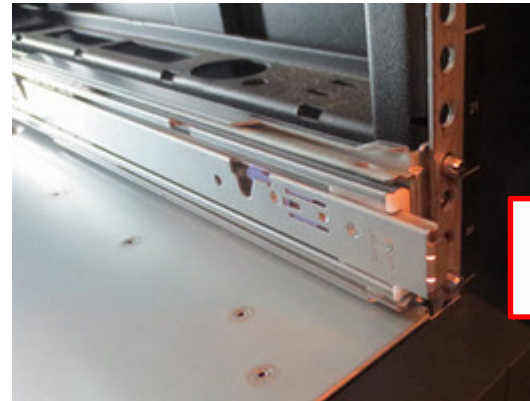
The customer could pay their CE, or BP or services to do it for them.



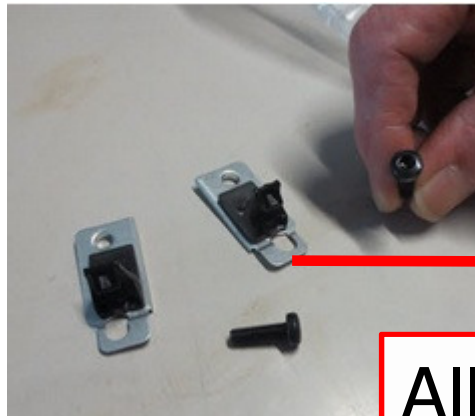
E850 rails = Follow the Install Instructions



Back



Front

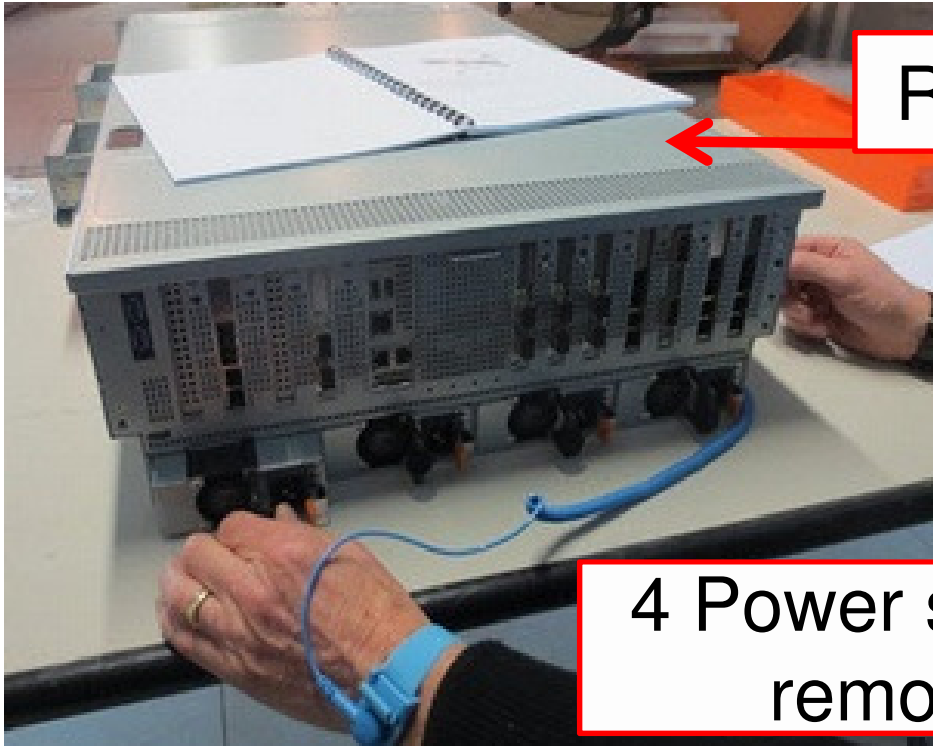


Plus added  
the screw clips

Allen key bolt



Pretty standard good quality rails



Removed I/O cover



4 Power supplies removed

5 Fans Removed

**Weight Reduction**



Disks 4 of 8



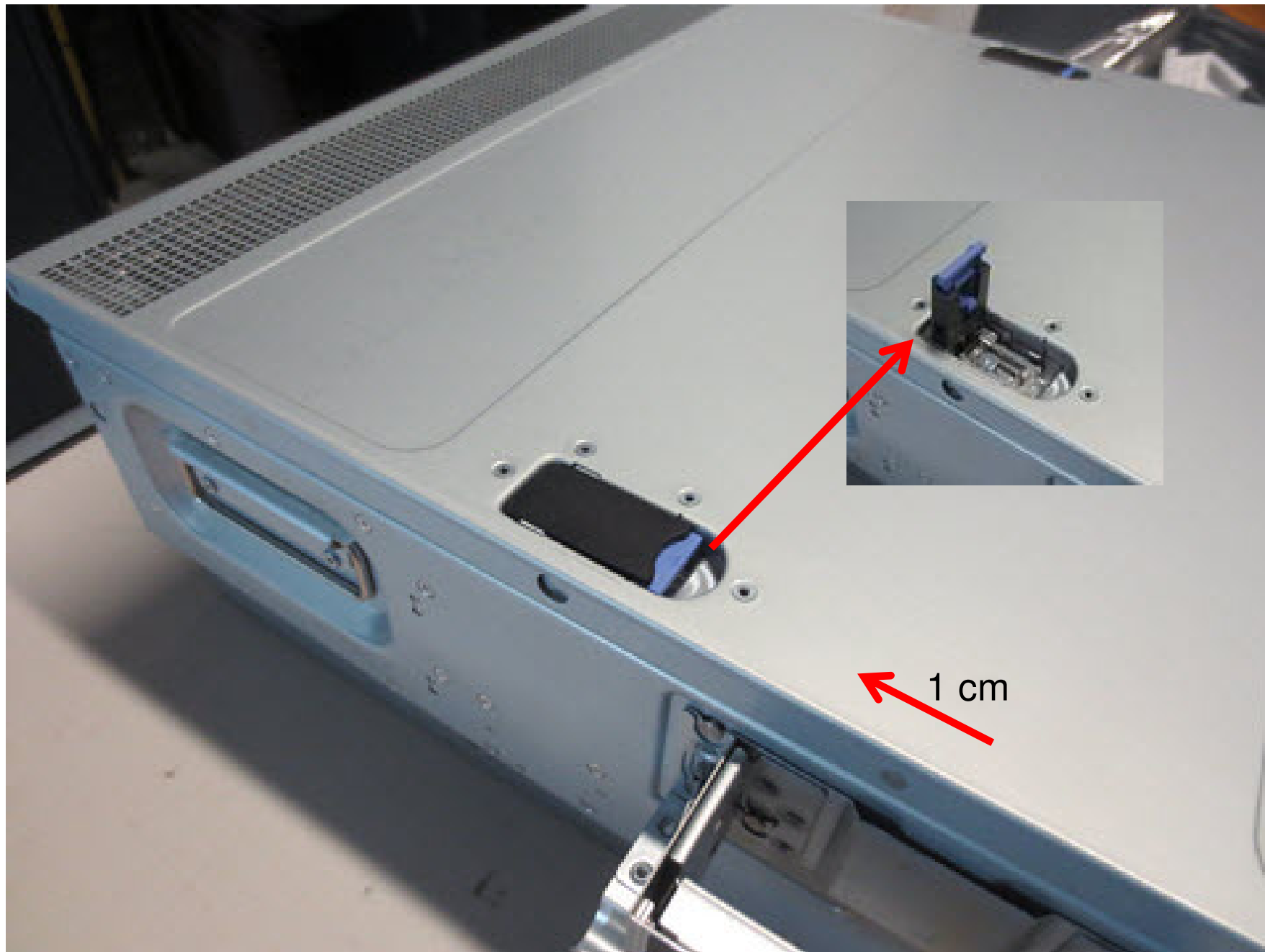
If you have them,  
remove the SSD's

**Weight Reduction**



**Of course, we wanted to look inside  
and take some pictures**

**Not necessary for installing the E850**



Before we place it in the Rack – let's open the box 😊

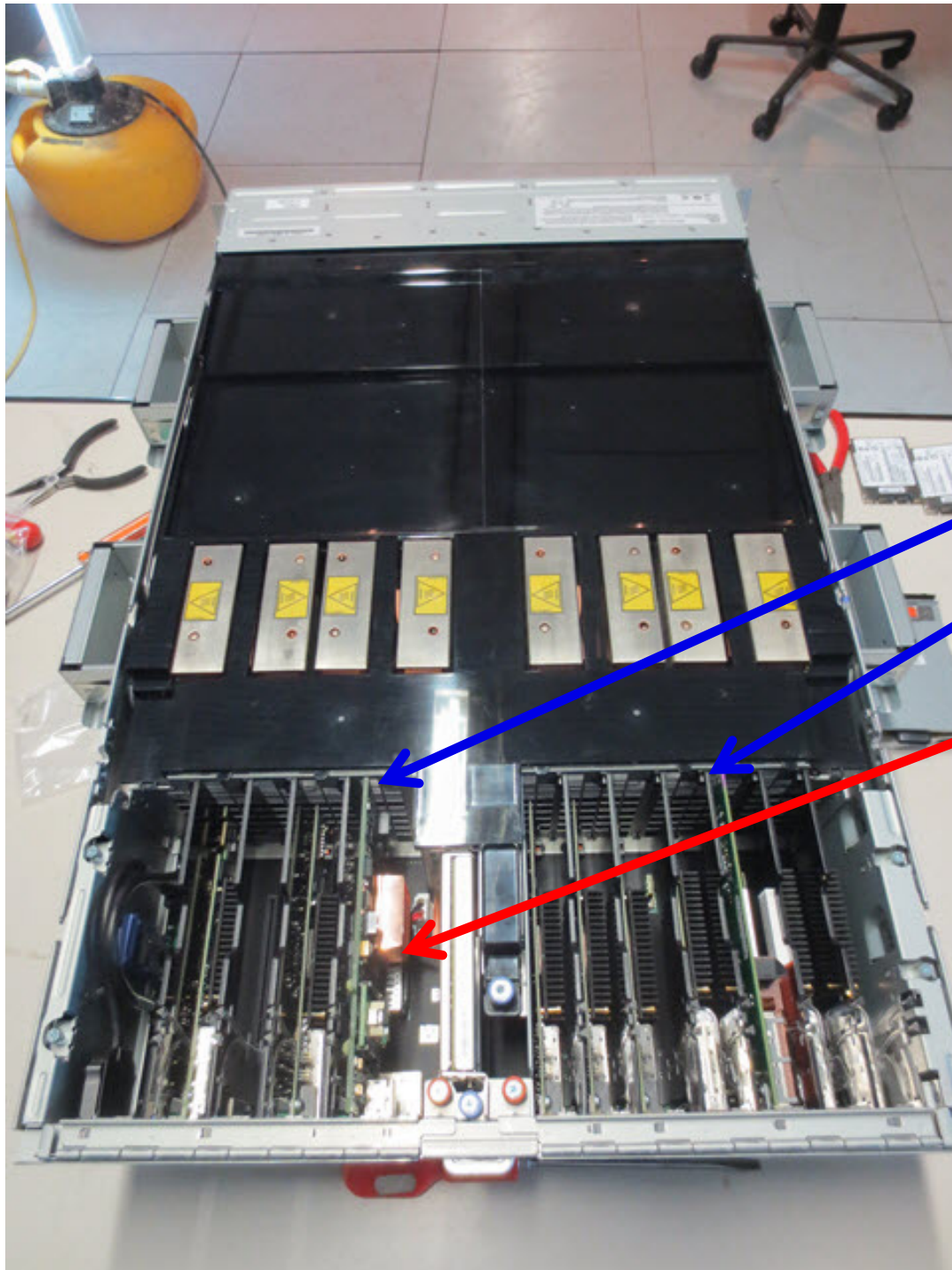


It was a bit of a shock & everyone said “wow!”









4 adapter slots

7 adapter slots

FSP + HMC sockets  
in the middle

Picture is odd angle  
& makes it look like  
the back is missing

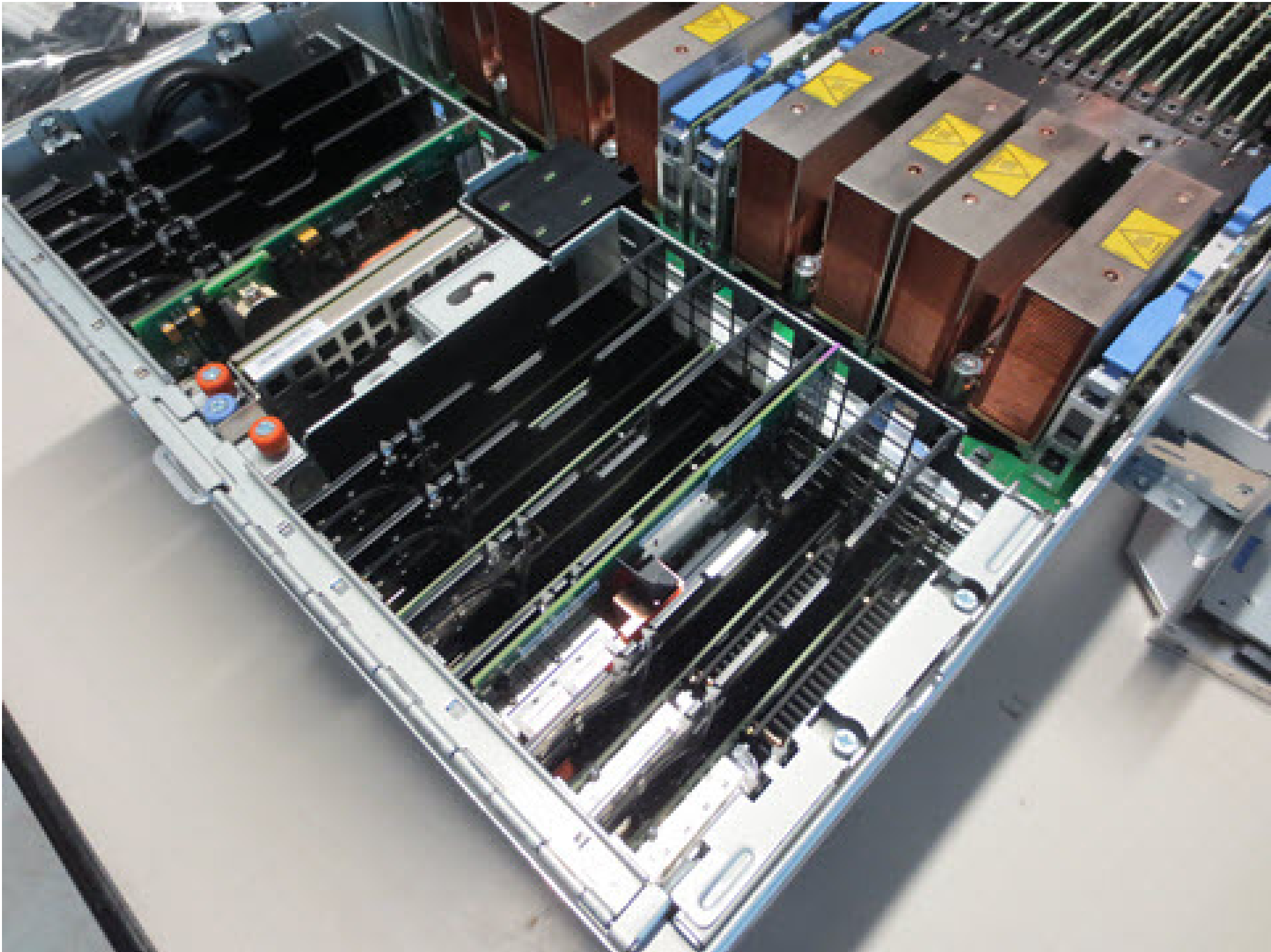
## **Warning: This is a Early Machine**

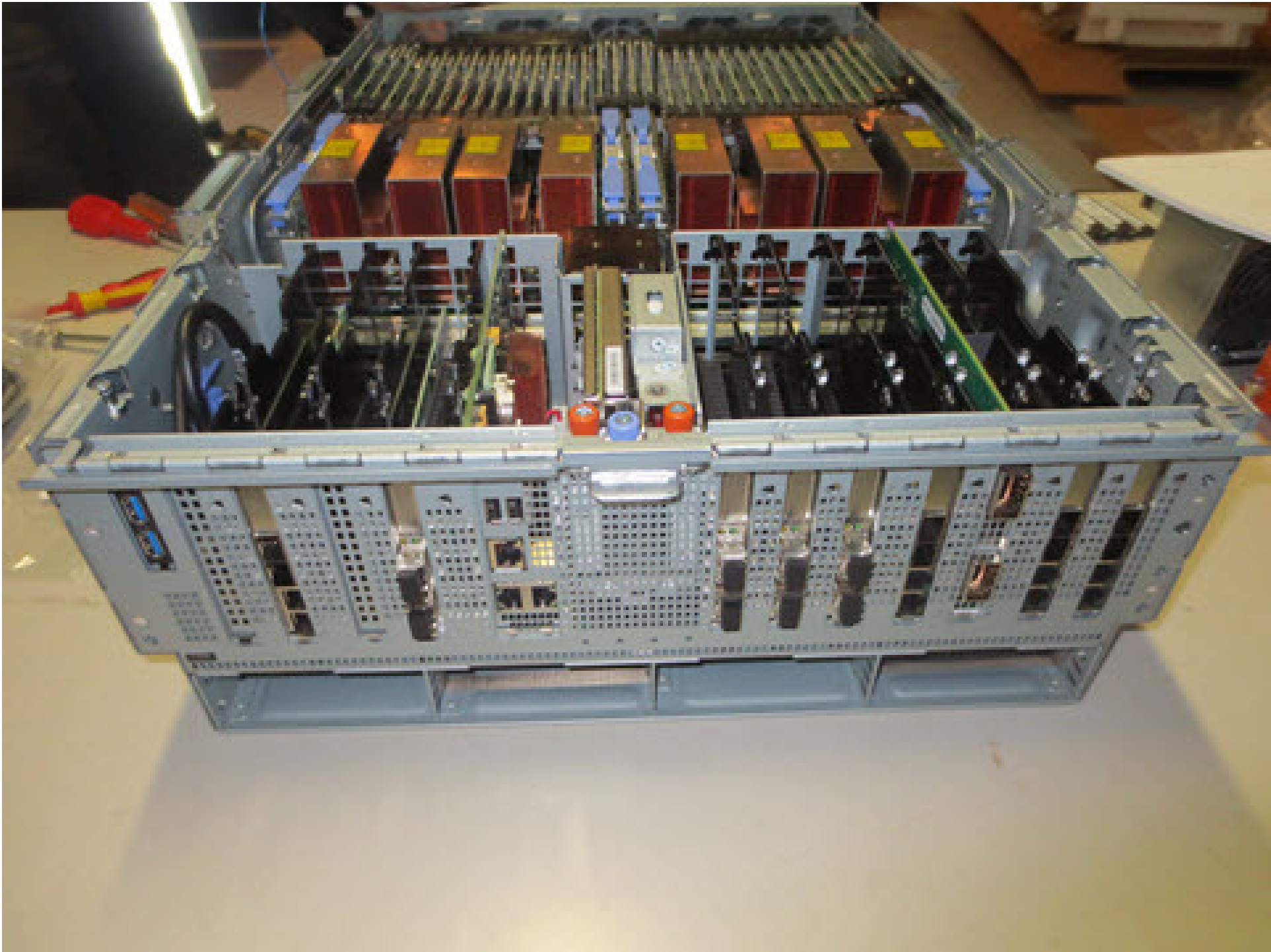
**Development told us that customer machines will not have a black air cover & probably have a clear see through cover so you can see any Diagnostic light path LEDs**

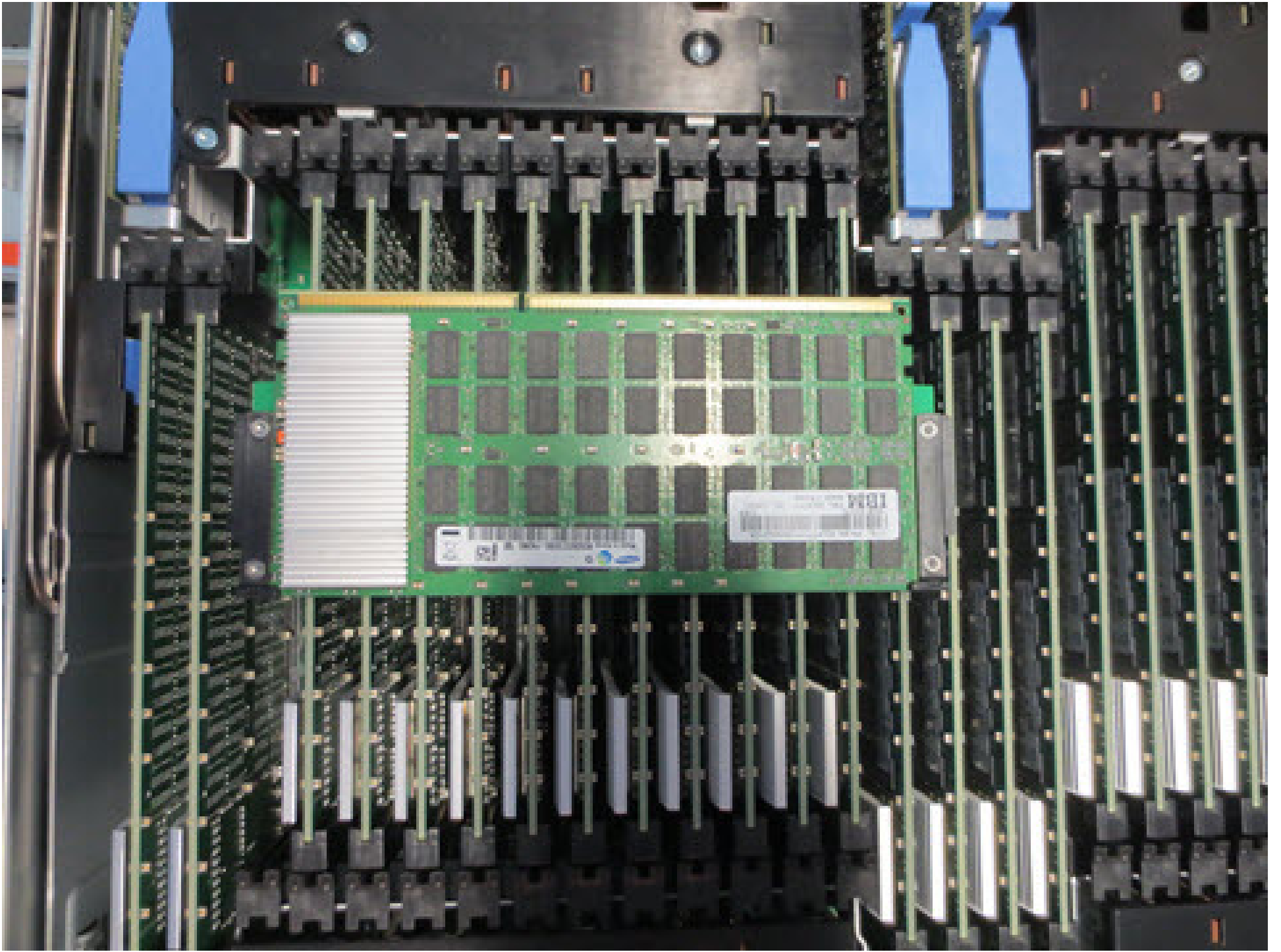
The IBM logo is located in the top right corner of the slide, within a blue triangular graphic. It consists of the letters 'IBM' in a stylized, bold, sans-serif font.

© 2015 IBM  
44  
POWER8 E850

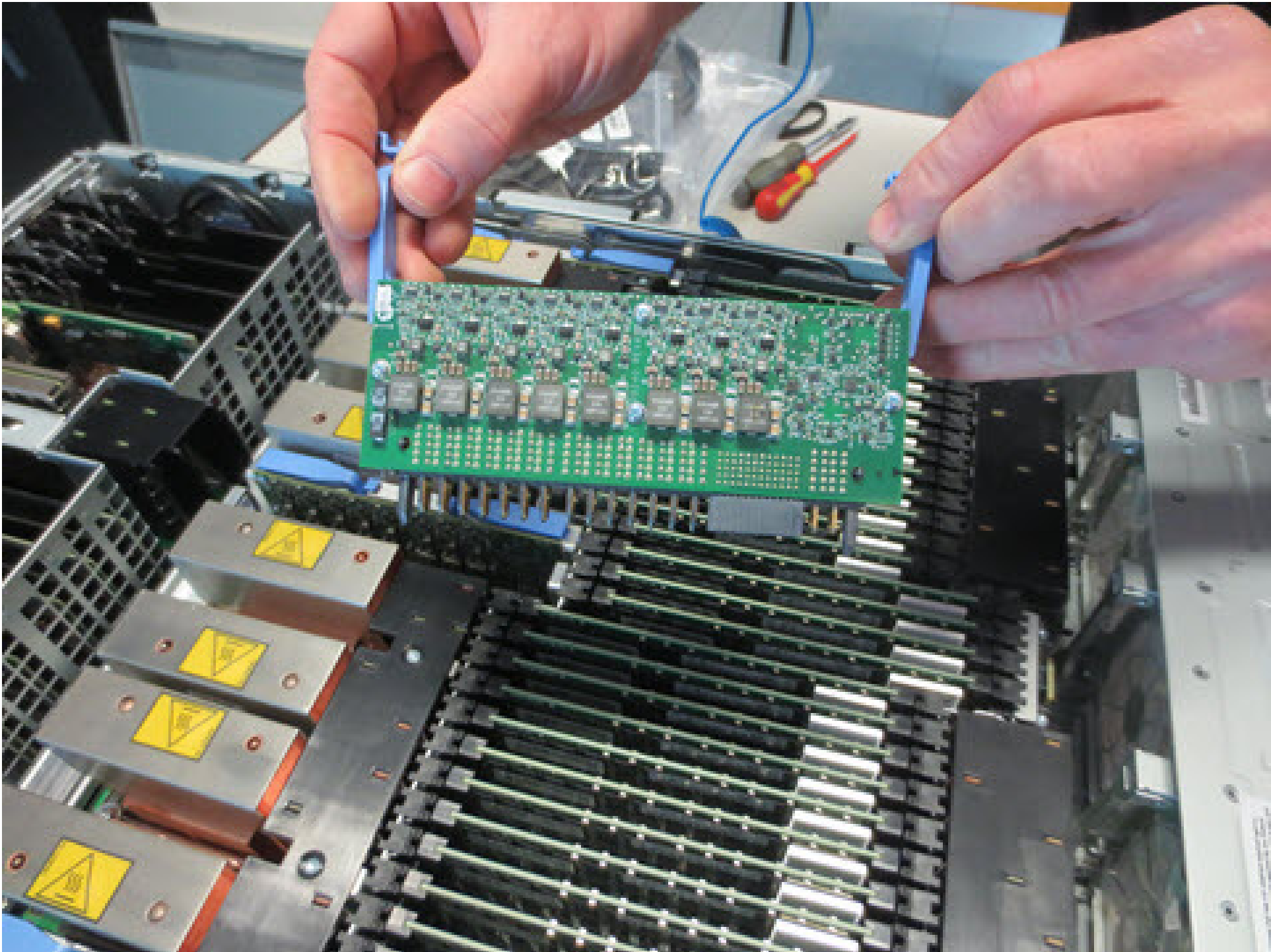


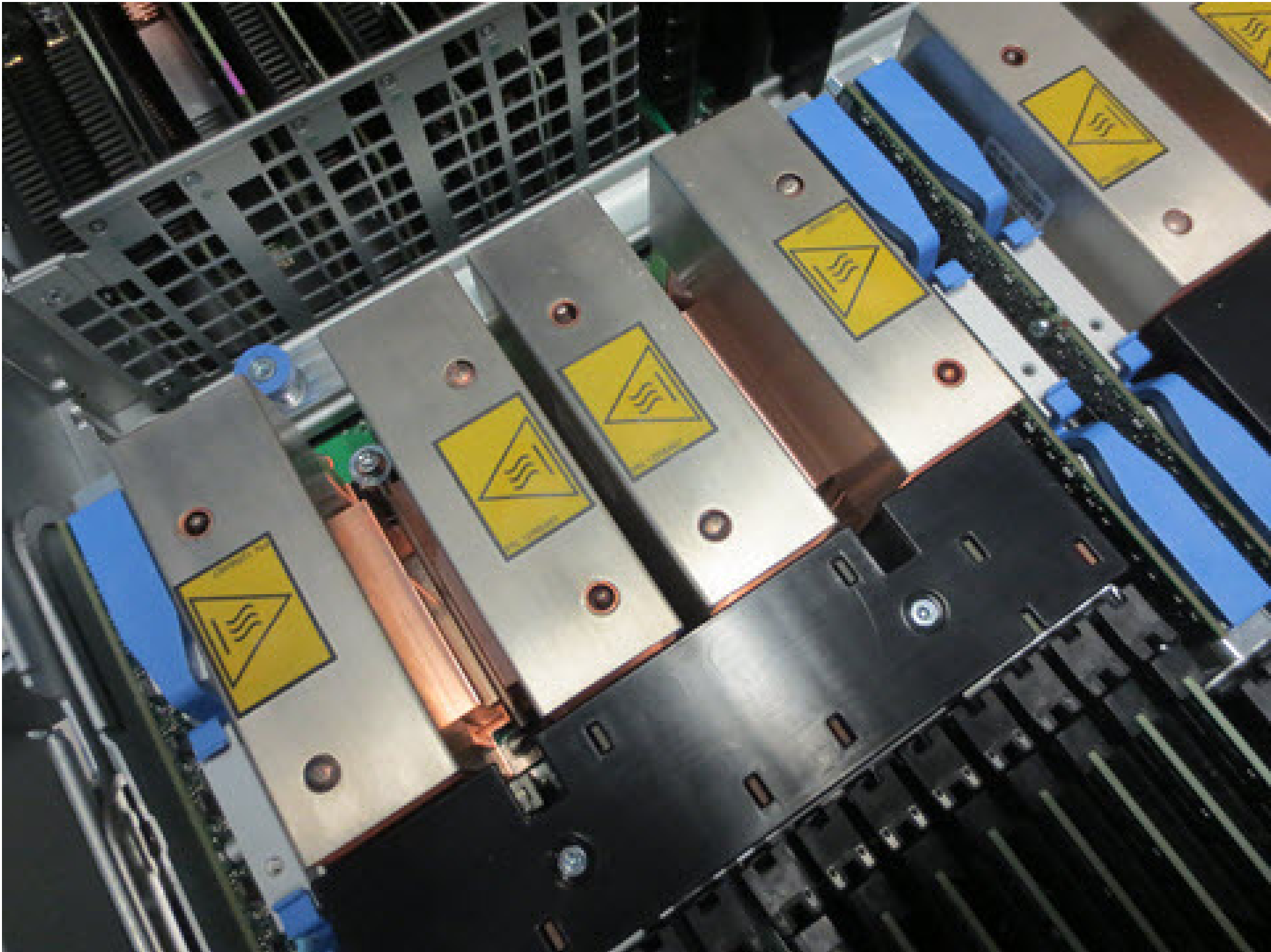






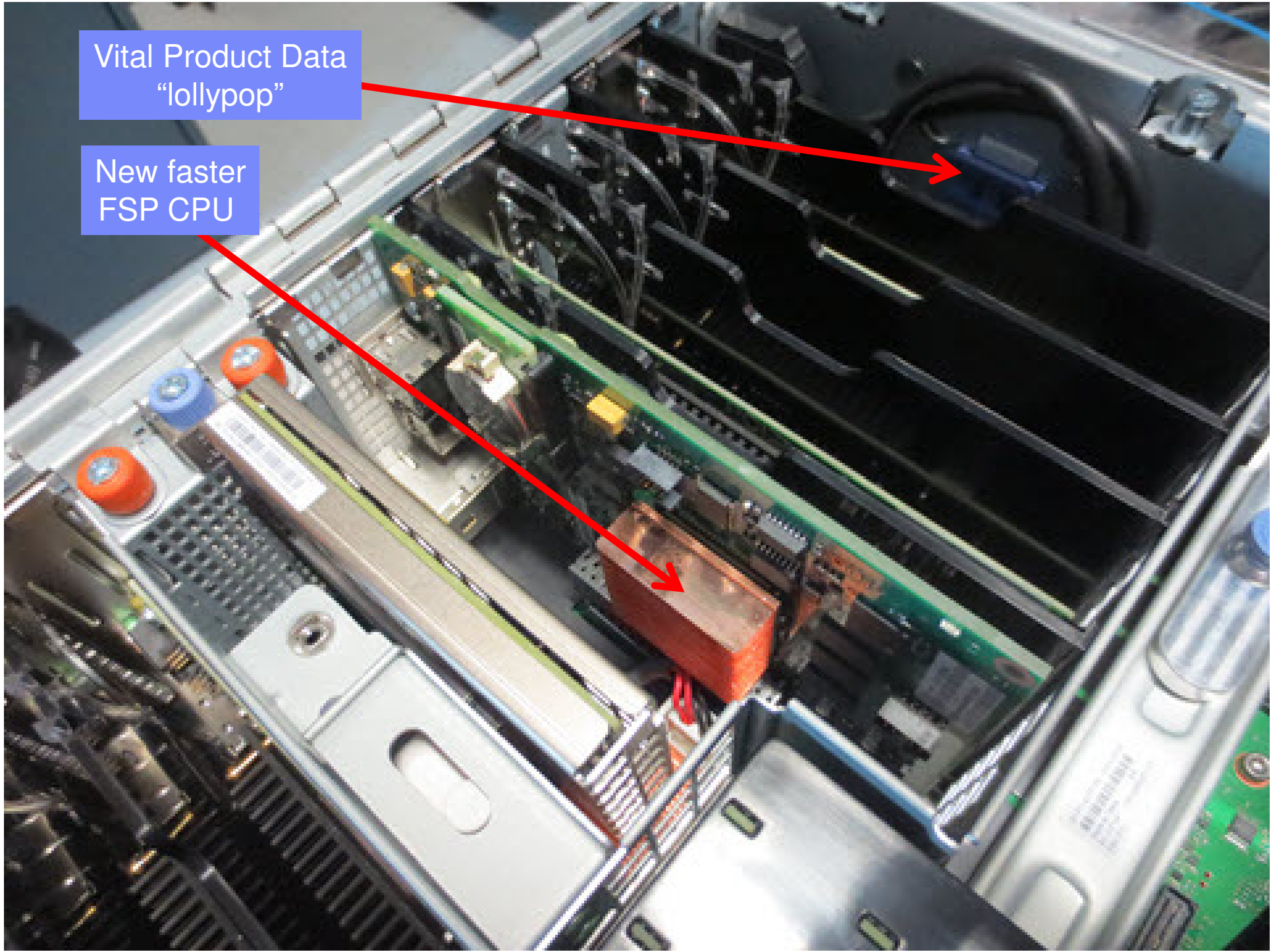




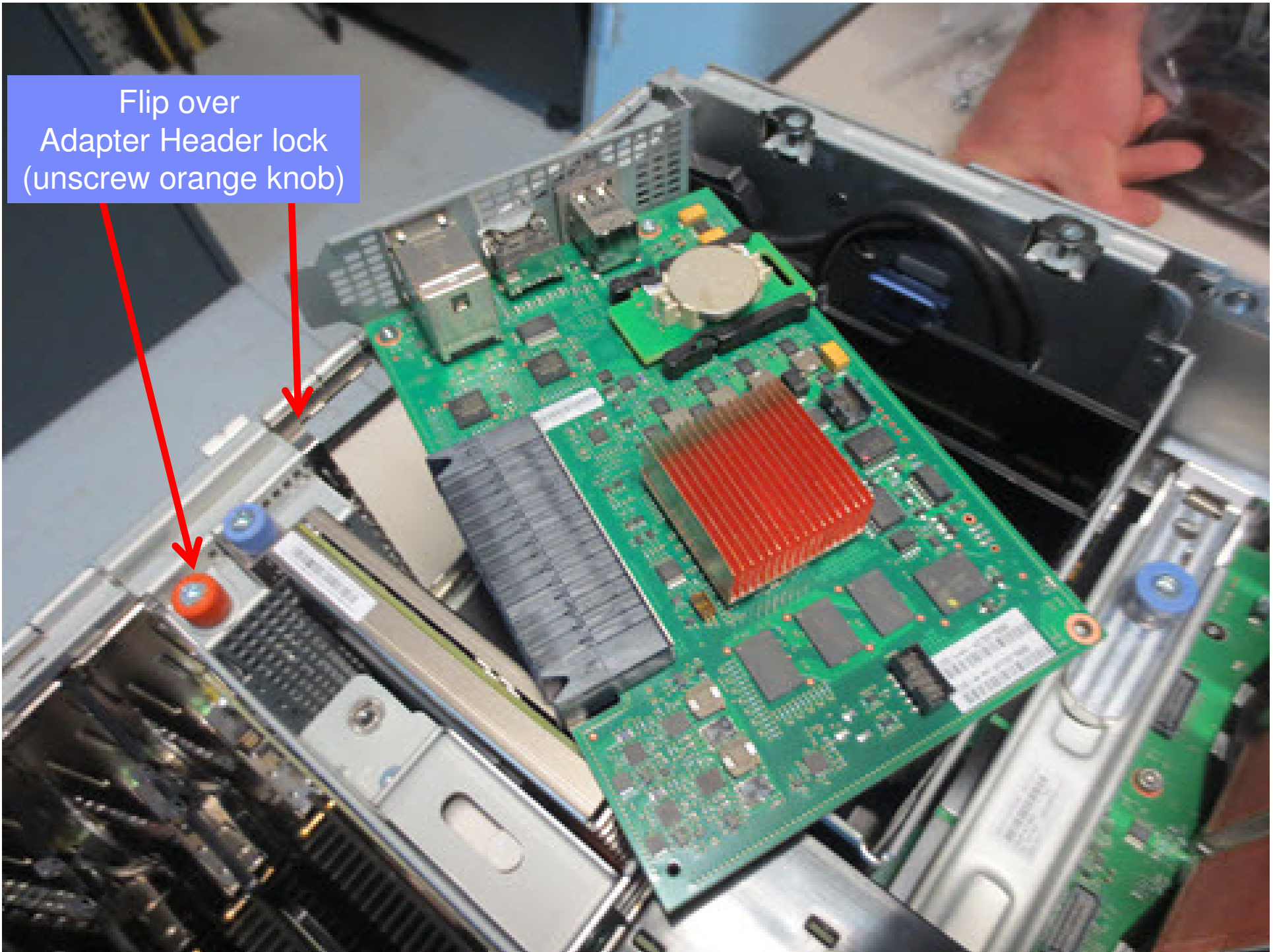


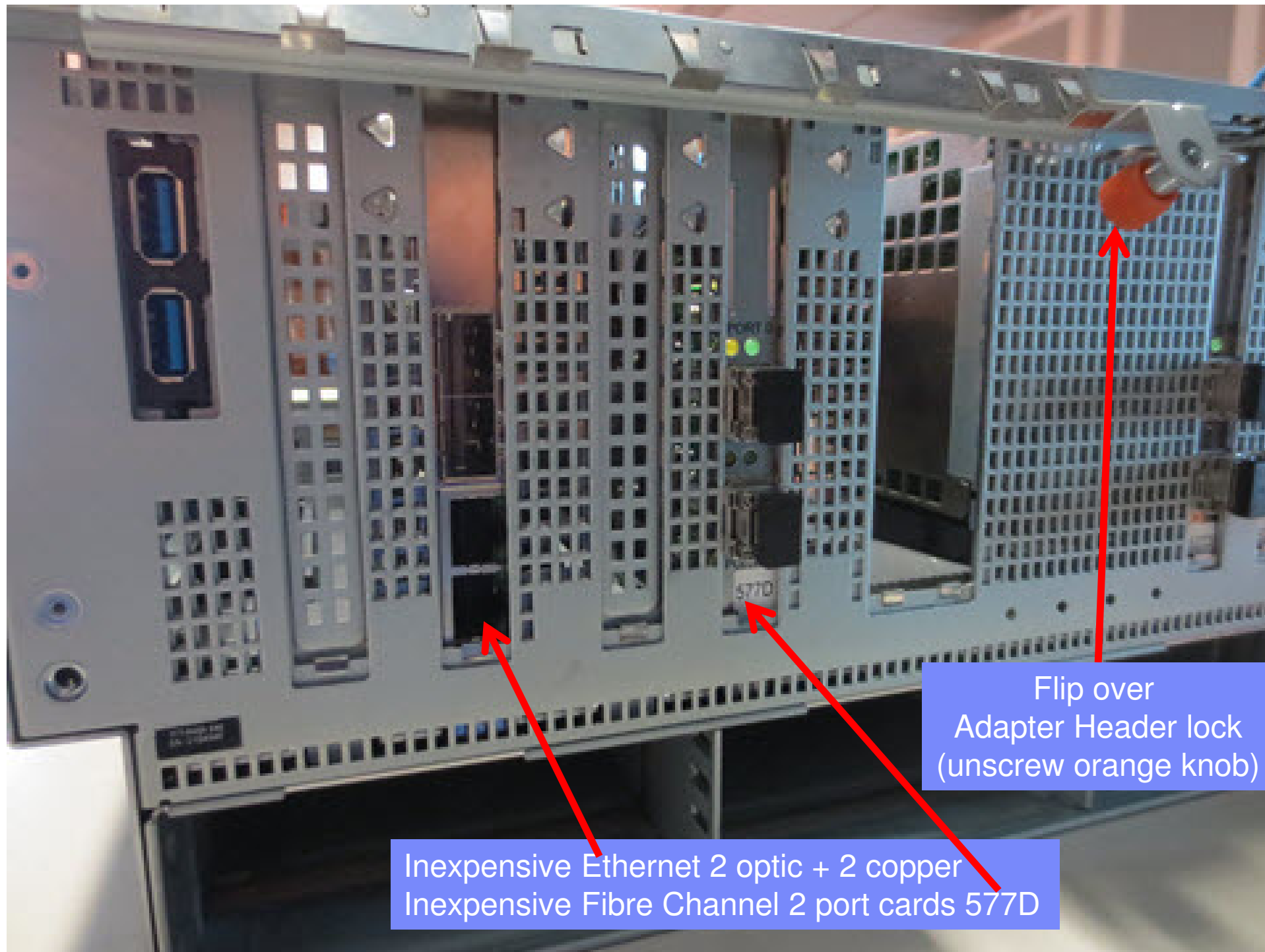
Vital Product Data  
"lollypop"

New faster  
FSP CPU



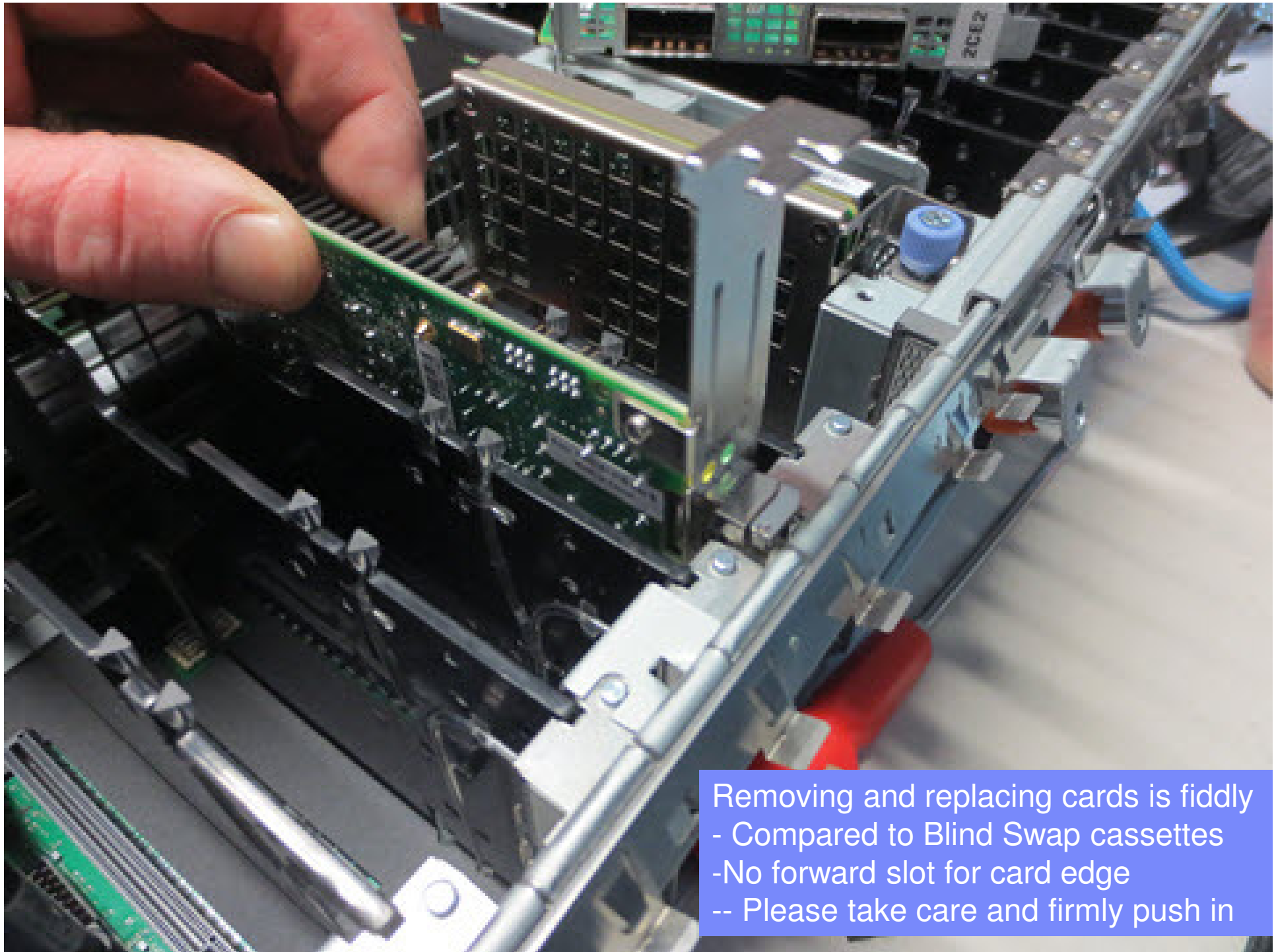
Flip over  
Adapter Header lock  
(unscrew orange knob)





Flip over  
Adapter Header lock  
(unscrew orange knob)

Inexpensive Ethernet 2 optic + 2 copper  
Inexpensive Fibre Channel 2 port cards 577D



Removing and replacing cards is fiddly  
- Compared to Blind Swap cassettes  
- No forward slot for card edge  
-- Please take care and firmly push in



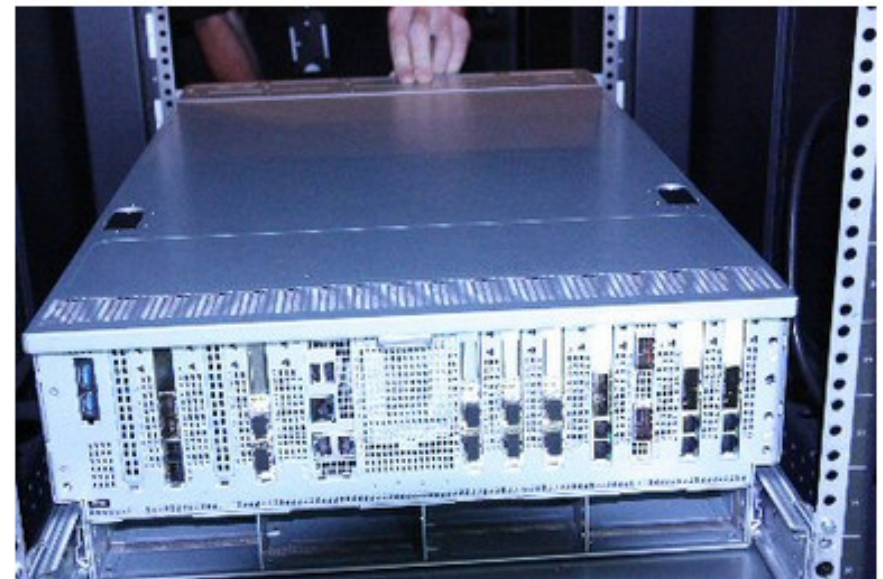
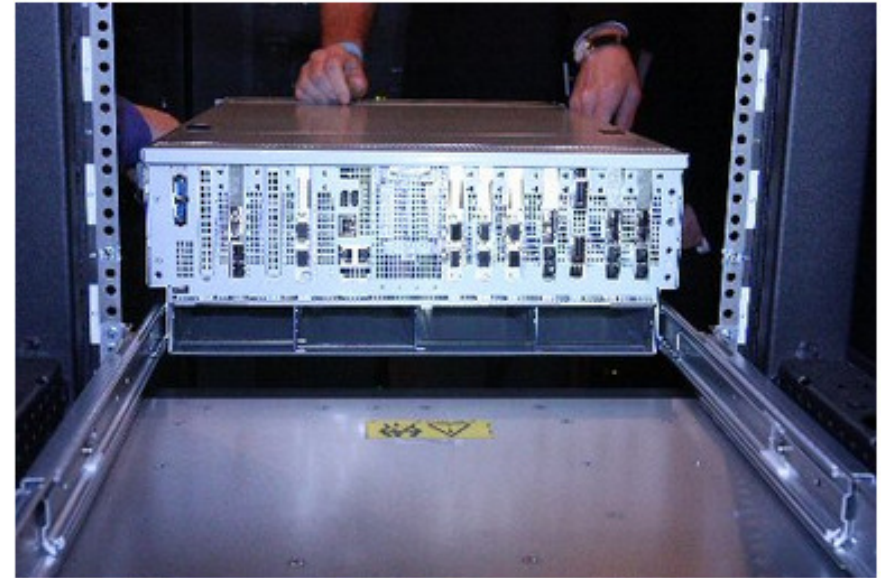
POWER8 I/O Drawer adapter for a pair optical cables to the same drawer half







Follow the Install Instructions

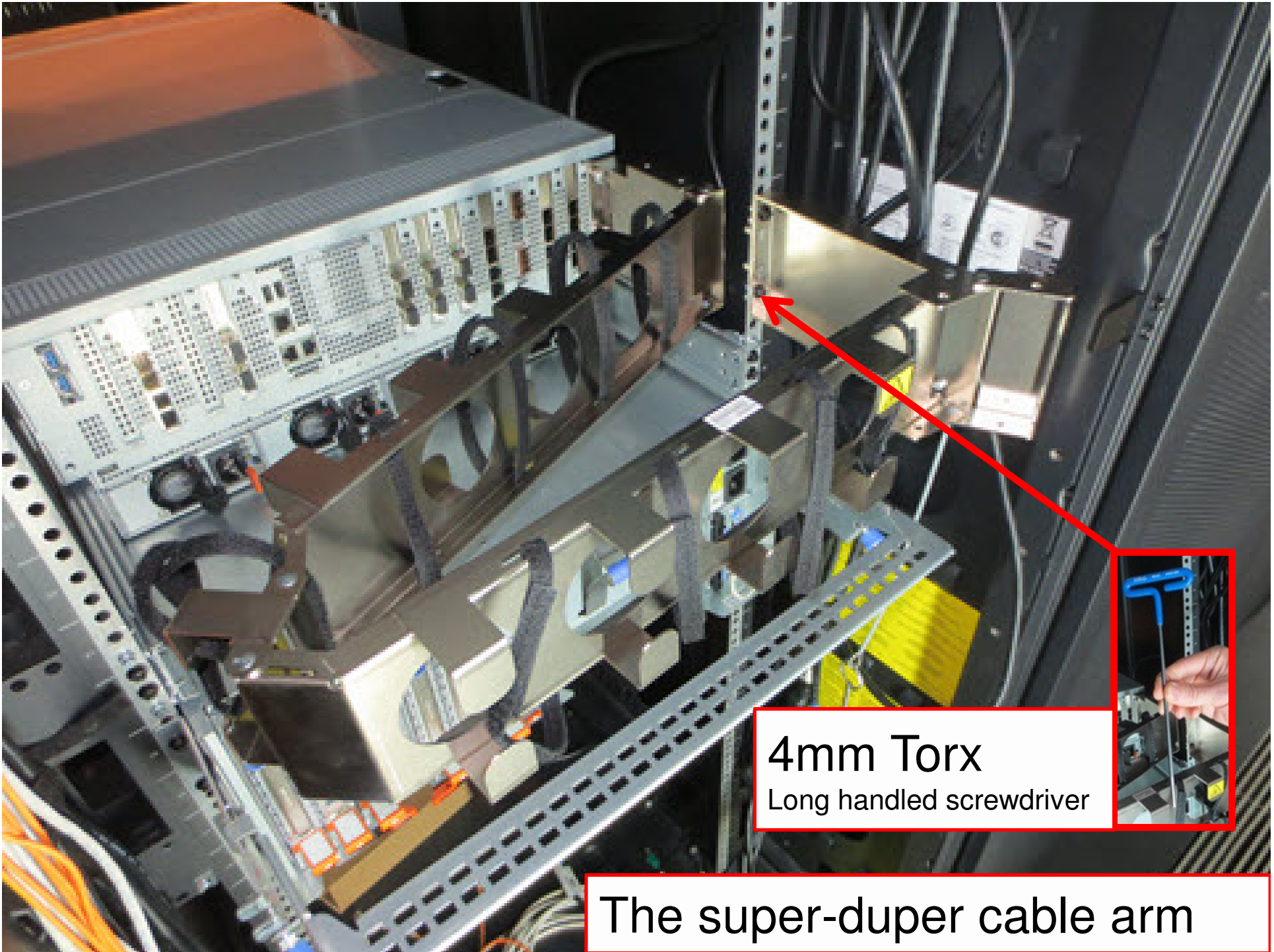


Back 1<sup>st</sup>, lower the front, unclip the handles & roll in

Not showing adding the Power Supplies, Fans & Disks

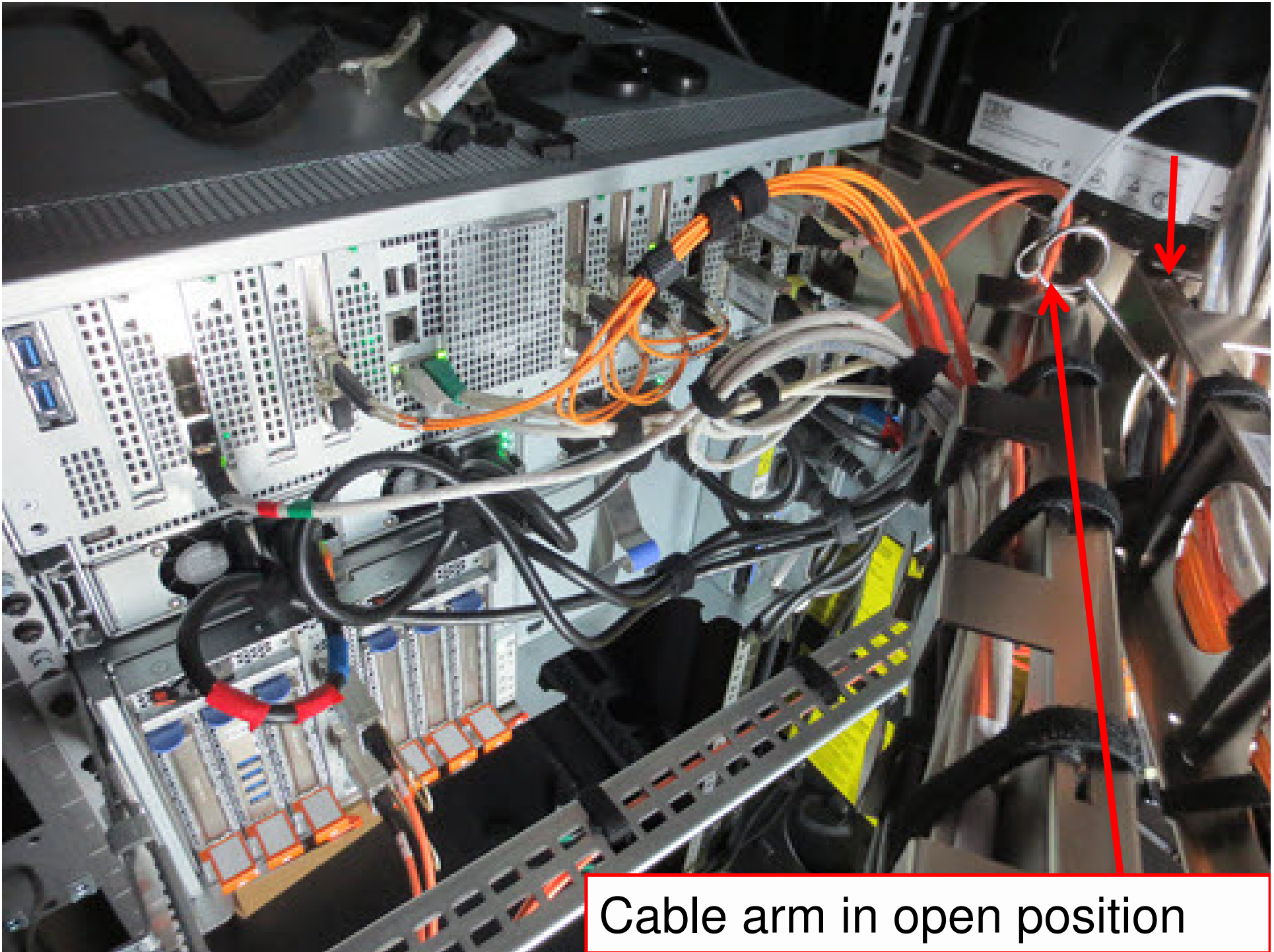
Next the cable tidy arm



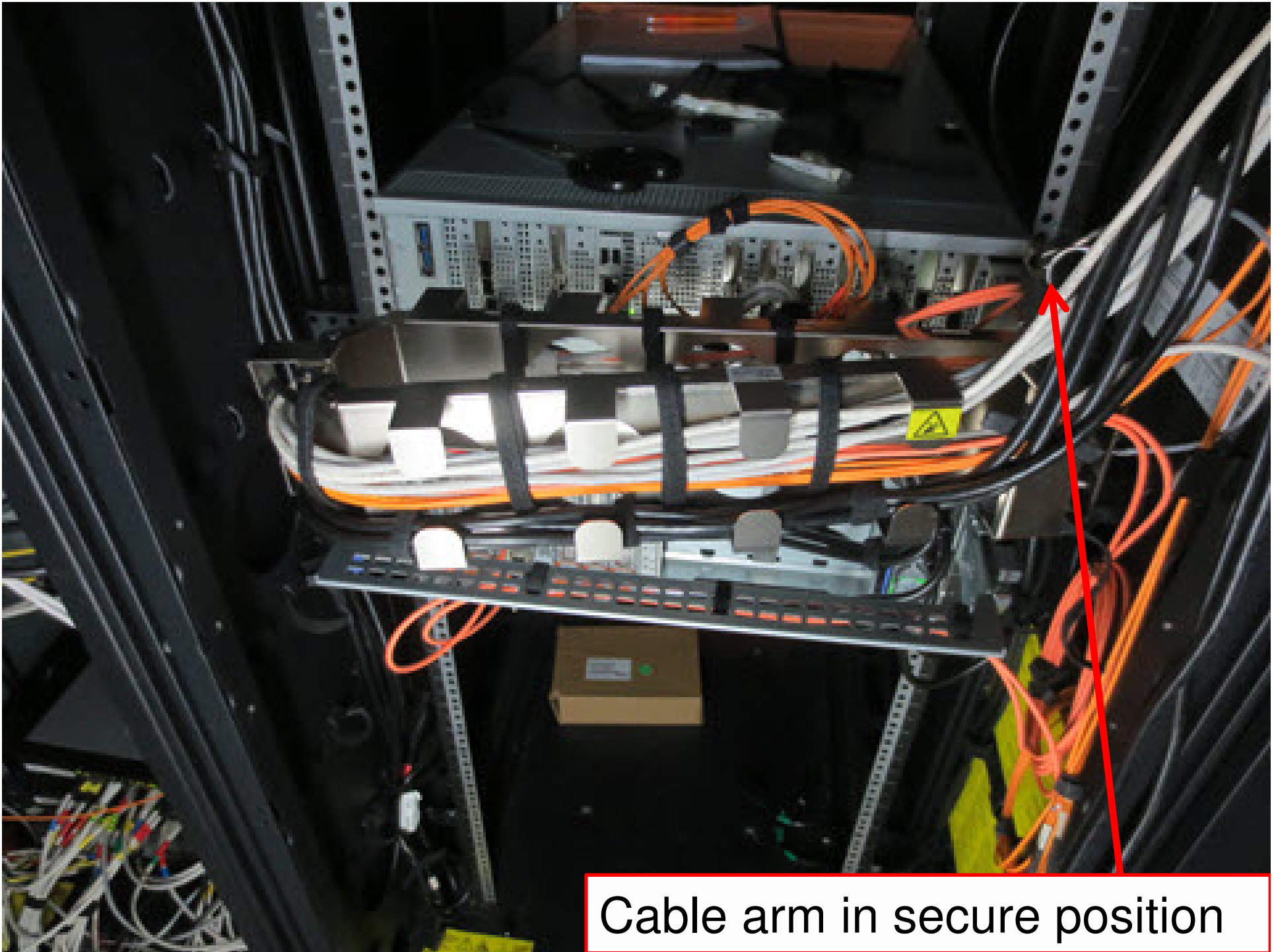


4mm Torx  
Long handled screwdriver

The super-duper cable arm



Cable arm in open position

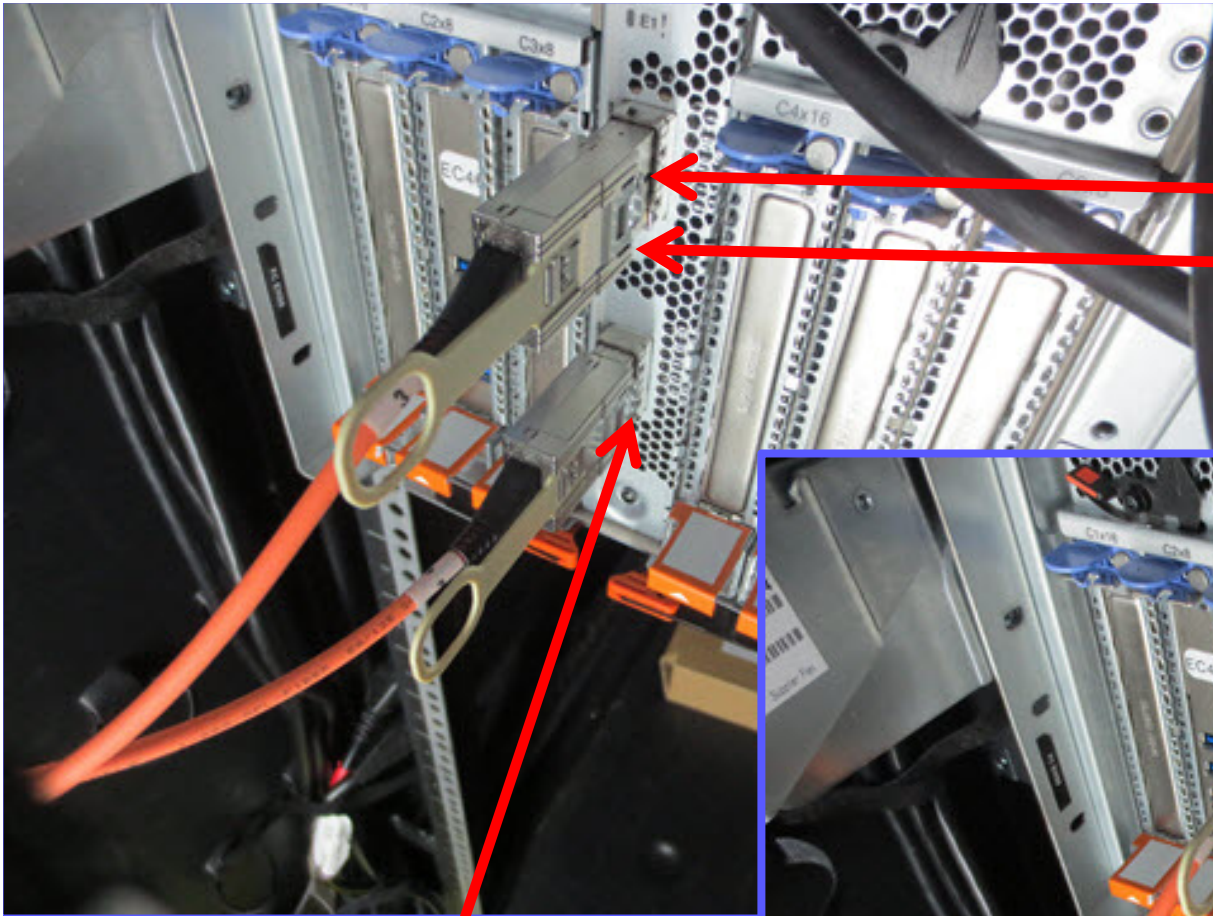


Cable arm in secure position



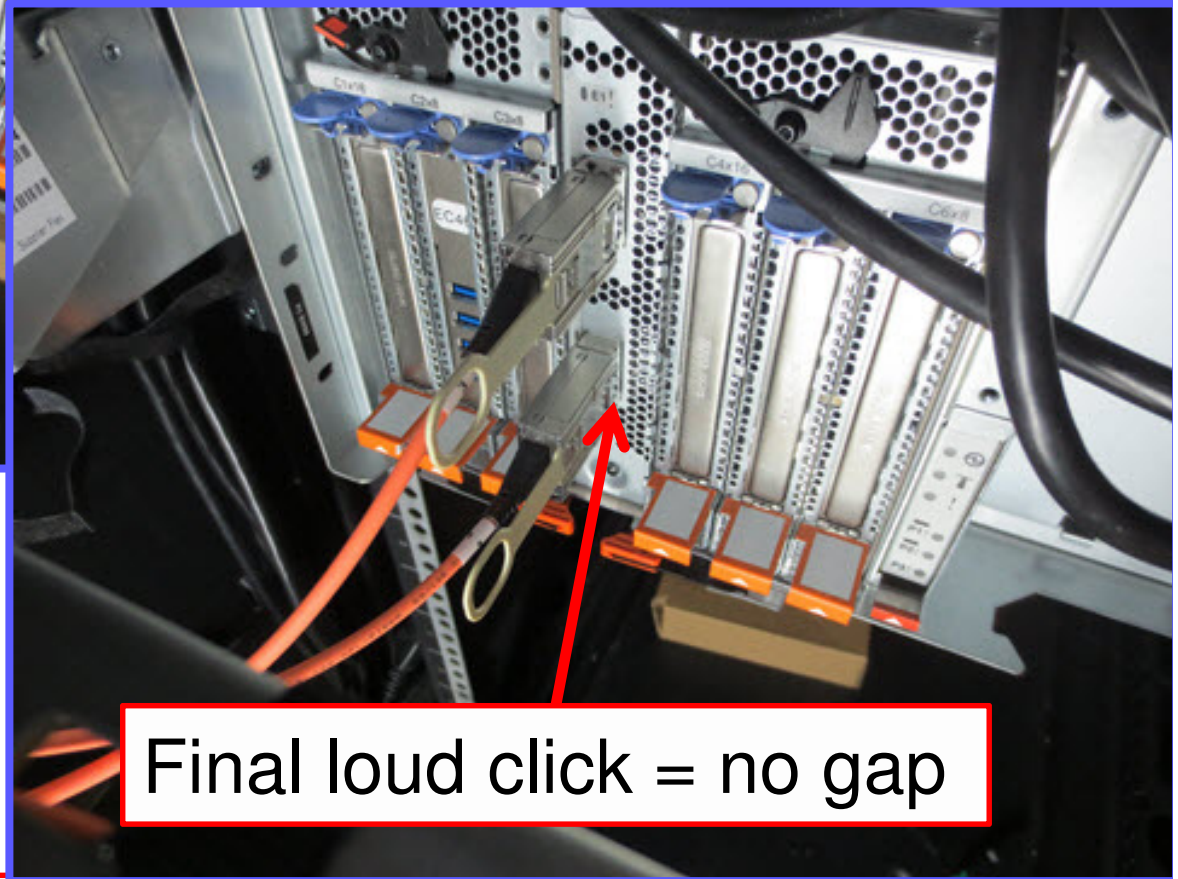
POWER8 I/O Drawer cables

This groove **MUST** match notch on the socket



Not pushed in!

Clunk but a gap



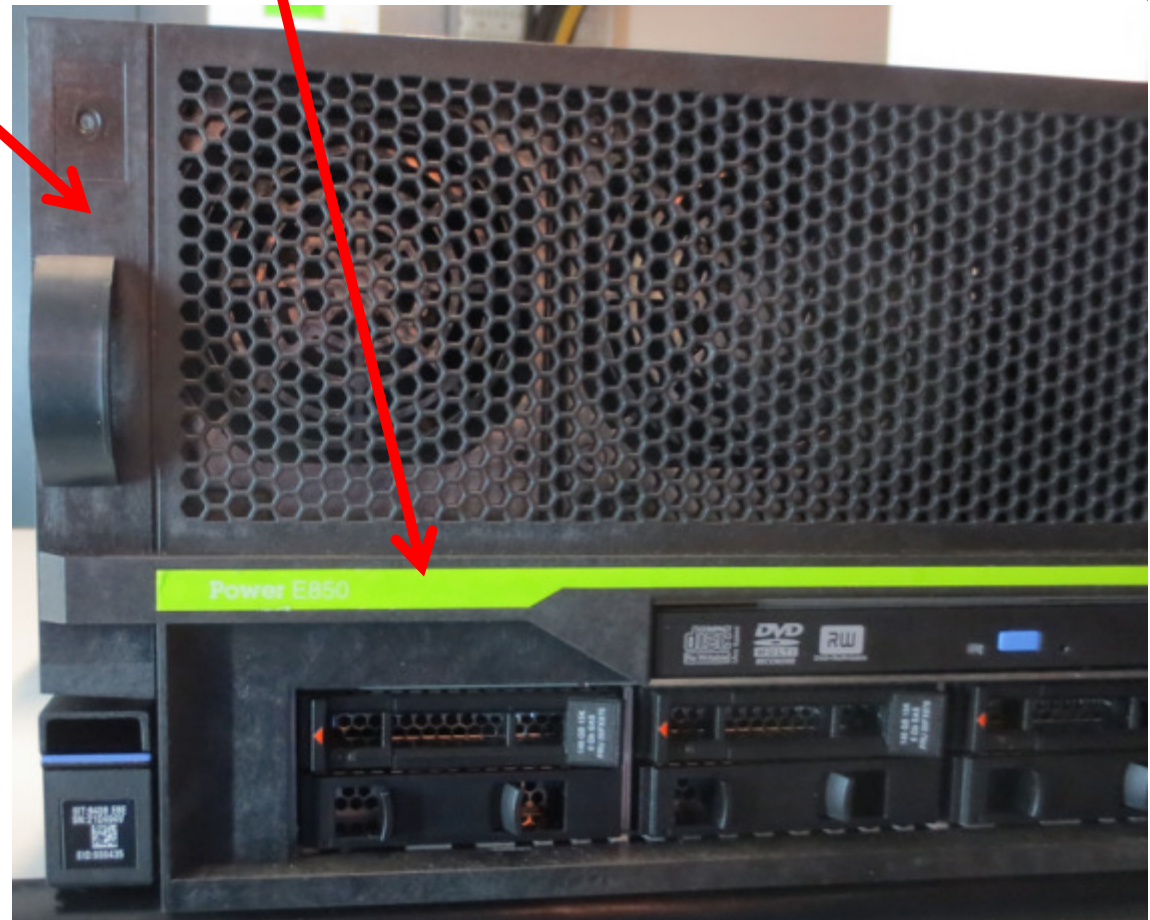
Final loud click = no gap

POWER8 I/O Drawer cable pair: top→top & bottom→bottom



## Early Ship has some hand-made parts

1. Horrid green “Power E850” Logo
2. Dull grey finish



- You will also get lots more stickers

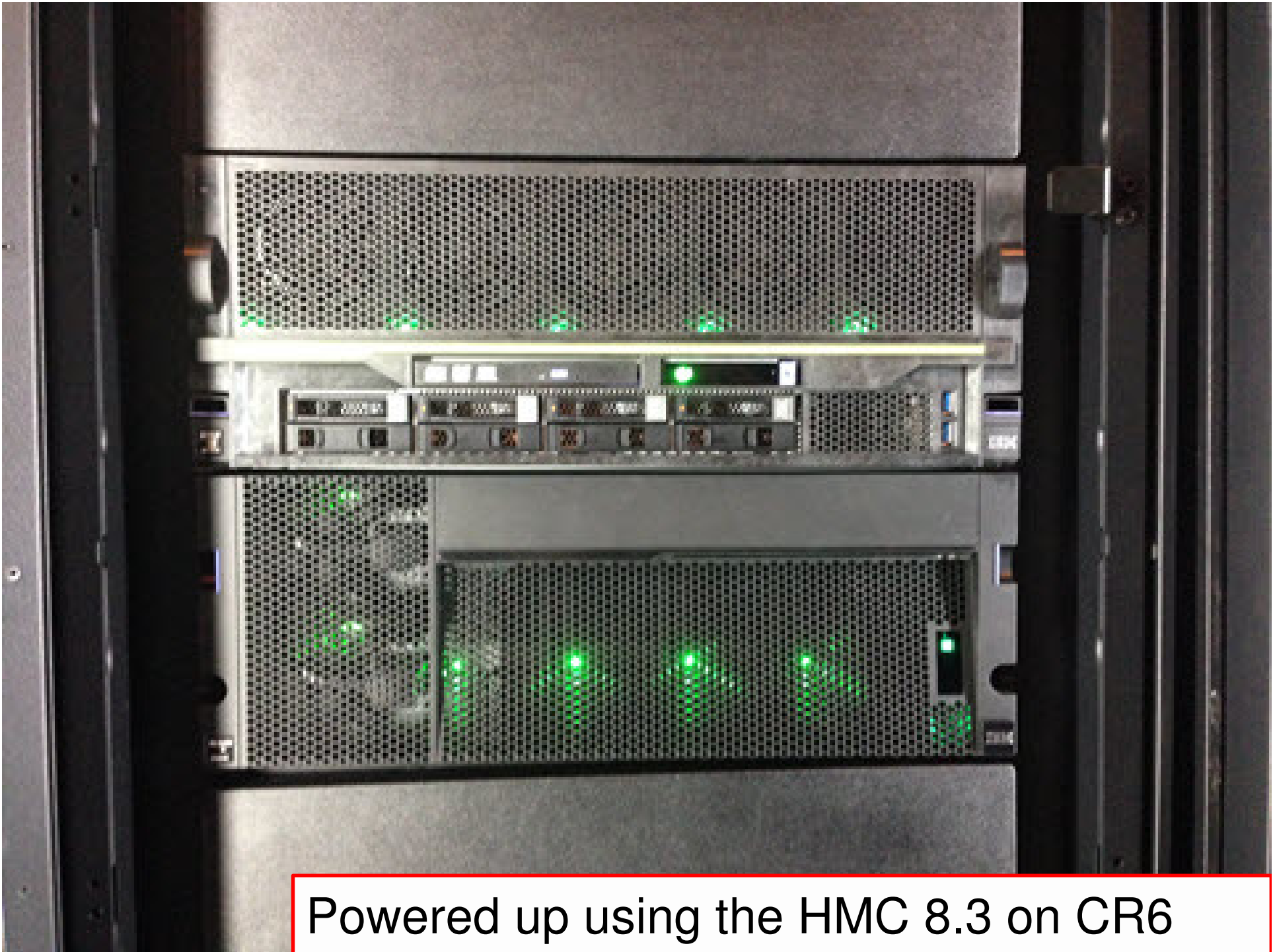
## Early Ship has some hand-made parts

1. Horrid green “Power E850” Logo
2. Dull grey finish



This will change

- You will also get lots more stickers



Powered up using the HMC 8.3 on CR6



Cover off



Pulled out of the rack



## Ready for Maintenance

- Power Supplies

- Fans

- Disks

- SSD or DVD

- Adapters


Following the HMC procedures

## But not for CPU or RAM


### All Systems


View and monitor the state, health, and capacity informa

Select All Actions ▾ Total: 2 Selected: 0




**P7-green-8231-E2B-SN06FC44P**

*i* 


 **Operating**


2 CPU 10 CPU Available

6.9 GB 57.1 GB Available



**Server-8408-E8E-SN21D494V**


*i* 

 **Standby**


32 CPU 0 CPU Available


512.0 GB 0.0 GB Available

HMC 8.30  
No longer Tech-Preview  
Just Enhanced+



**21-D494V**

*i* 

 **Not Activated**

32.00 Processors Allocated

497.750 GB Allocated

**21-D494V** Data Collection

**Processors** Type: **Dedicated**  
Allocated: **32.00**

**Memory** Allocated: **497.8 GB**

[View Performance Dashboard](#)

# Split Backplane with two RAID controllers

| Slot ^                                   | Description ^   | Bus ^ | I/O Pool Id ^ | Owner ^    | Type ^ |
|--|---|-------|---------------|------------|--------|
| <a href="#">U78C7.001.053K040-P1-C10</a> | PCIe Expansion Drawer Cable Card                      | 16    | Unassigned    | Unassigned |        |
| <a href="#">U78C7.001.053K040-P3-R1</a>  | RAID Controller                                       | 17    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C11</a> | PCIe2 4-port(10Gb FCoE & 1GbE) Copper&RJ45            | 24    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C12</a> | PCIe2 4-port(10Gb FCoE & 1GbE) Copper&RJ45            | 25    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C8</a>  | 8 Gigabit PCI Express Dual Port Fibre Channel Adapter | 32    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P3-R2</a>  | RAID Controller                                       | 33    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C9</a>  | PCIe2 4-port(10Gb FCoE & 1GbE) Copper&RJ45            | 40    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-T1</a>  | Universal Serial Bus UHC Spec                         | 43    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C6</a>  | 8 Gigabit PCI Express Dual Port Fibre Channel Adapter | 44    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C7</a>  | 8 Gigabit PCI Express Dual Port Fibre Channel Adapter | 45    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C3</a>  | Empty slot  | 48    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C4</a>  | 8 Gigabit PCI Express Dual Port Fibre Channel Adapter | 56    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C1</a>  | Empty slot  | 64    | Unassigned    | 21-D494V   |        |
| <a href="#">U78C7.001.053K040-P1-C2</a>  | PCIe2 4-port(10Gb FCoE & 1GbE) Copper&RJ45            | 72    | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C1</a>  | Empty slot  | 257   | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C2</a>  | 4-Port USB 3.0 Adapter                                | 258   | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C3</a>  | Empty slot  | 259   | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C4</a>  | Empty slot  | 260   | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C5</a>  | Empty slot  | 261   | Unassigned    | 21-D494V   |        |
| <a href="#">U78CD.001.FZH0676-P1-C6</a>  | Empty slot  | 262   | Unassigned    | 21-D494V   |        |

POWER8 I/O Drawer



|  |                            |  |           |             |   |
|--|----------------------------|--|-----------|-------------|---|
|  | p8-ruby-8408-E8E-SN21D494V |  | Operating |             | Managed Sys   |
|  | emerald3 AIX7 TL3 SP4 GA   |  | Running   |             | Logical Partiti AIX 7.1 7100-03-04-1441                   |
|  | ruby34                     |  | Running   |             | Logical Partiti AIX 7.1 7100-03-04-1441                   |
|  | ruby35-Ubuntu1504          |  | Running   | Linux ppc64 | Logical Partiti Unknown                                   |
|  | rubyvios1                  |  | Running   |             | Logical Partiti VIOS 2.2.3.50 6100-09-04-1441             |
|  | rubyvios2                  |  | Running   |             | Logical Partiti VIOS 2.2.3.50 6100-09-04-1441             |
|  | rubyvios3                  |  | Running   |             | Logical Partiti VIOS 2.2.4.0 6100-09-04-1441              |
|  | rubyvios4                  |  | Running   |             | Logical Partiti VIOS 2.2.4.0 6100-09-04-1441              |
|  | vm160-90361a9e-000000f3    |  | Running   |             | Logical Partiti AIX 7.1 7100-03-04-1441                   |
|  | vm20-SLES-11.3             |  | Running   | SUSE Linu   | Logical Partiti Linux/SuSE 3.0.101-0.42.1.7881.0.PTF11 11 |
|  | vm22-RHEL7-GA              |  | Running   | Linux ppc64 | Logical Partiti Unknown                                   |
|  | <del>VM27_IBM_I</del>      |  | Running   | 00000000    | <del>IBM Licensed Internal Code 7.2.0.3060.0</del>        |

### Updates

#### HMC Code Level

Version: 8

Release: 8.3.0

Service Pack: 0

[Update HMC](#)

Build Level: 20150302.2

Base Version: V8R8.3.0

Serial Number: 102B0DC

Model Type: 7042CR6

BIOS: D6E149AUS-1.09

#### System Code Levels



Filter

Tasks Views

| Select                   | Name                        | Status    | Platform IPL Level | Activated Level | EC Number |
|--------------------------|-----------------------------|-----------|--------------------|-----------------|-----------|
| <input type="checkbox"/> | P7-green-8231-E2B-SN06FC44P | Operating | 142                | 142             | 01AL730   |
| <input type="checkbox"/> | p8-ruby-8408-E8E-SN21D494V  | Operating | FW830.00 (24)      | FW830.00 (24)   | 01SV830   |

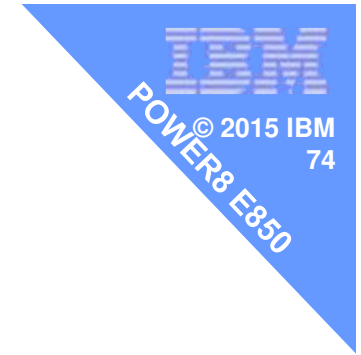
Max Page Size:

500

Total: 2 Filtered: 2 Selected: 0

## We are Running ...

- HMC 8.3
- Firmware new 830 stream
- VIOS 2.2.3.50 (min) can be in a SSP on 2.2.3.4
- AIX
  - Using physical devices then AIX 7.3.4
  - More relaxed with pure virtual VM's [anything in last year]
- Linux
  - Check with your vendor
  - if POWER8 ready it will run on E850 with virtual I/O
    - **SLES 11.3** and 12
    - Ubuntu 14.10, **15.04**
    - Red Hat 6.6, **7.1** and 7.1LE
- Tested LPM of AIX & Linux works from POWER7 or 8



# E850 Supported OS Levels

If installing AIX LPAR **with any I/O** configuration:

- AIX V7.1 TL3 SP5 and APAR IV68444, or later
- AIX V7.1 TL2 SP7, or later (planned availability September 30, 2015)
- AIX V6.1 TL9 SP5 and APAR IV68443, or later
- AIX V6.1 TL8 SP7, or later (planned availability September 30, 2015)

If installing AIX **Virtual-I/O-only** LPAR:

- AIX V7.1 TL2 SP1, or later
- AIX V7.1 TL3 SP1, or later
- AIX V6.1 TL8 SP1, or later
- AIX V6.1 TL9 SP1, or later

If installing VIOS:

- VIOS 2.2.3.51 or later

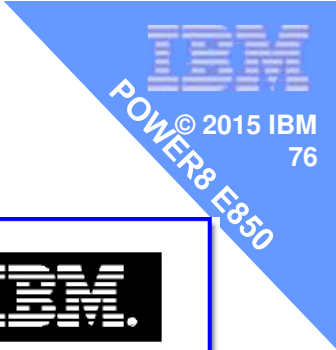
If installing the Linux operating system \*:

- Big Endian
  - Red Hat Enterprise Linux 7.1, or later
  - Red Hat Enterprise Linux 6.6, or later
  - SUSE Linux Enterprise Server 11 Service Pack 3
- Little Endian
  - Red Hat Enterprise Linux 7.1, or later
  - SUSE Linux Enterprise Server 12 and later Service Packs
  - See also SUSE SOD
  - Ubuntu 15.04


\* see SUSE Linux Enterprise Server SOD



# rPerf's but no CPW's (of course)



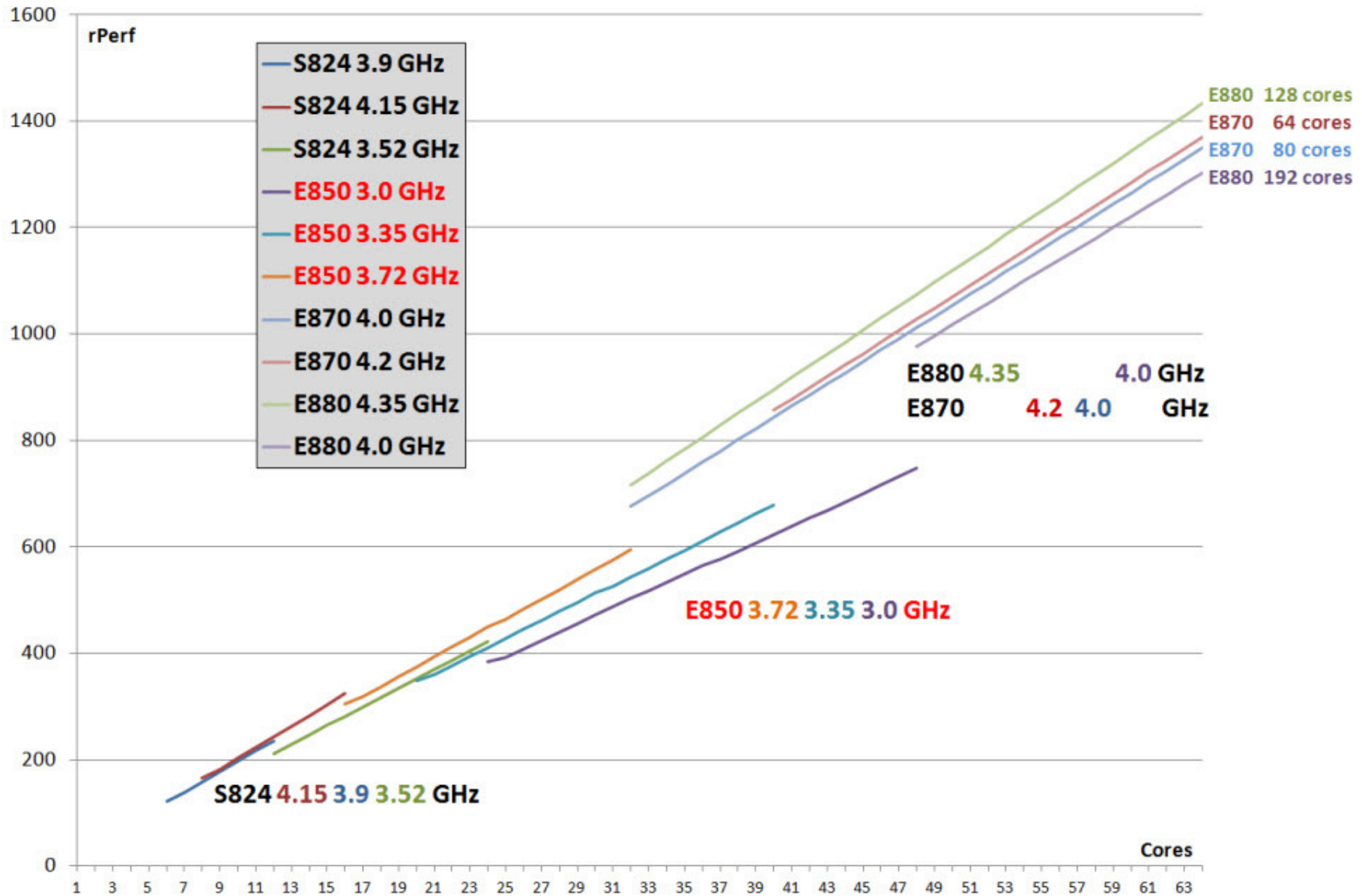
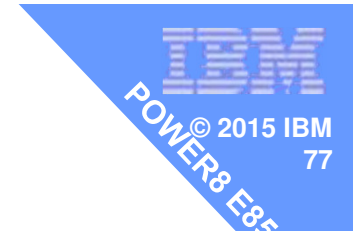
IBM Power Systems  
May 2015



**IBM Power Systems Facts and Features:**  
**Enterprise and Scale-out Systems with  
POWER8™ Processor Technology**

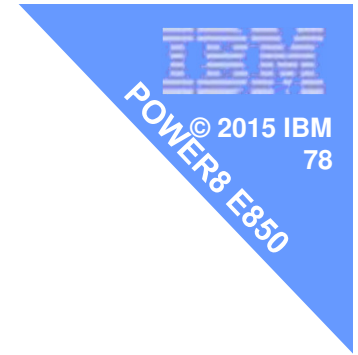
A vertical stack of four different IBM Power Systems server models. From top to bottom: a three-bay rack server, a two-bay rack server, a single-bay rack server, and a blade server chassis.

# Model Comparison

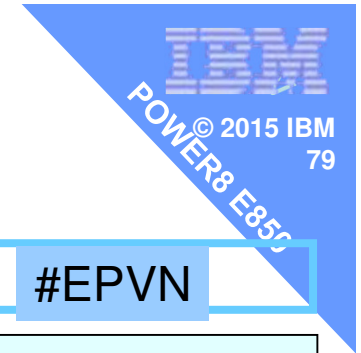


## I/O Planar options

- There are:
  - 8 x SAS SFF bays for HDDs or SSDs
  - 4 x SAS 1.8” bays for SSDs
  - 1 x DVD drive
  
- But there are various options



# E850 Storage Backplane Options



Must select one →  
of three SAS  
controller options:

#EPVQ

#EPVP

#EPVN

**6+6 SAS bays**  
2x (4 SFF-3 & 2 1.8")  
**2 SAS controllers**  
**0 GB cache**  
**DVD bay**

**12 SAS bays**  
(8 SFF-3 & 4 1.8")  
**Dual SAS controls**  
**0 GB cache**  
**DVD bay**

**12 SAS bays**  
(8 SFF-3 & 4 1.8")  
**Dual SAS contrllrs**  
**7.2\*\* GB cache**  
**DVD bay**

\$ 3000

\$ 3000

\$ 6000

|                           |     |  |     |  |     |
|---------------------------|-----|--|-----|--|-----|
| AIX / Linux               | YES |  | YES |  | YES |
| <i>Easy Tier Function</i> | YES |  | YES |  | YES |
| JBOD                      | YES |  | NO  |  | NO  |
| RAID 0 / 1                | YES |  | YES |  | YES |
| RAID 5 / 6 / 10           | YES |  | YES |  | YES |
| RAID 5T2 (Easy Tier)      | NO  |  | YES |  | YES |
| RAID 6T2 (Easy Tier)      | NO  |  | YES |  | YES |
| RAID 10T2 (Easy Tier)     | YES |  | YES |  | YES |
| Split backplane           | YES |  | NO  |  | NO  |

\*\* 1.8GB physical write cache provides up to effectively 7.2GB with compression

USA list price is subject to change. Reseller prices will vary.

## Dual vs Split SAS Controller Considerations

- “Dual” controllers have two controllers working together for additional protection (redundancy) and performance (active-active).
  - Treat the pair conceptually as ONE resource.
    - Both assigned to a partition or a VIOS. Can not split.
    - Both controllers see all 12 SAS bays.
  - If one of pair fails, it is designed for the remaining controller to take over all work
  - If multiple arrays configured, controllers split primary responsibility for handling arrays, increasing performance
  - If have write cache, each controller keeps a copy of the data in cache to protect against loss of data.
    - If one controller fails, the other controller stops using write cache after writing out contents until pairing restored. This can impact performance significantly.



# Dual vs Split SAS Controller Considerations



© 2015 IBM  
81  
POWER8 E850

- “Split” controllers have two controllers working independently.
  - Treat each controller as one resource.
    - Can assigned each independently to a partition or a VIOS.
    - Each controller sees only its own 6 SAS bays.
  - You may want to assign each to a VIOS and then mirror the two VIOS for protection.
  - Or assign each to the same partition and then mirror the two sets of drives.

# E850 Processor Modules and Activations

**More modules = more memory & more I/O**

| Number of processor modules | CDIMM memory slots | PCIe slots in system unit | Max PCIe Gen3 I/O Drawers |
|-----------------------------|--------------------|---------------------------|---------------------------|
| 2                           | 16                 | 7                         | 2                         |
| 3                           | 24                 | 9                         | 3                         |
| 4                           | 32                 | 11                        | 4                         |

## E850 offers CoD processor flexibility

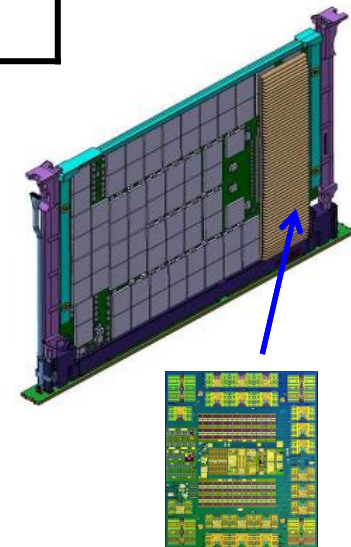
- 1<sup>st</sup> & 2<sup>nd</sup> processor module cores 100% permanently activated
- 3<sup>rd</sup> & 4<sup>th</sup> processor module cores optionally activated
  - Elastic CoD, Utility CoD, Trial CoD

# E850 DDR3 1.6 GHz Memory with L4 Cache

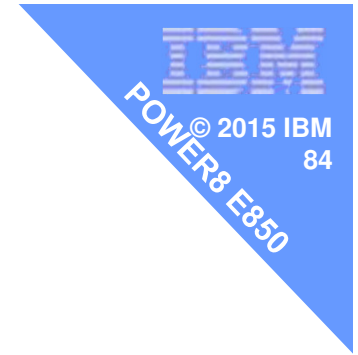
## 16GB, 32GB, 64GB CDIMMs (Custom DIMMs)

| Number of processor modules | Max CDIMM slots | Max TB Memory using 64GB CDIMMs |
|-----------------------------|-----------------|---------------------------------|
| 2                           | 16              | 1                               |
| 3                           | 24              | 1.5                             |
| 4                           | 32              | 2                               |

- 8 CDIMM slots per processor module
- Each memory feature adds bandwidth
- Minimum of 4 CDIMMs per processor feature
- Permanent activations: minimum of 50% or 128GB activations (which ever is more)
- SOD for higher memory max

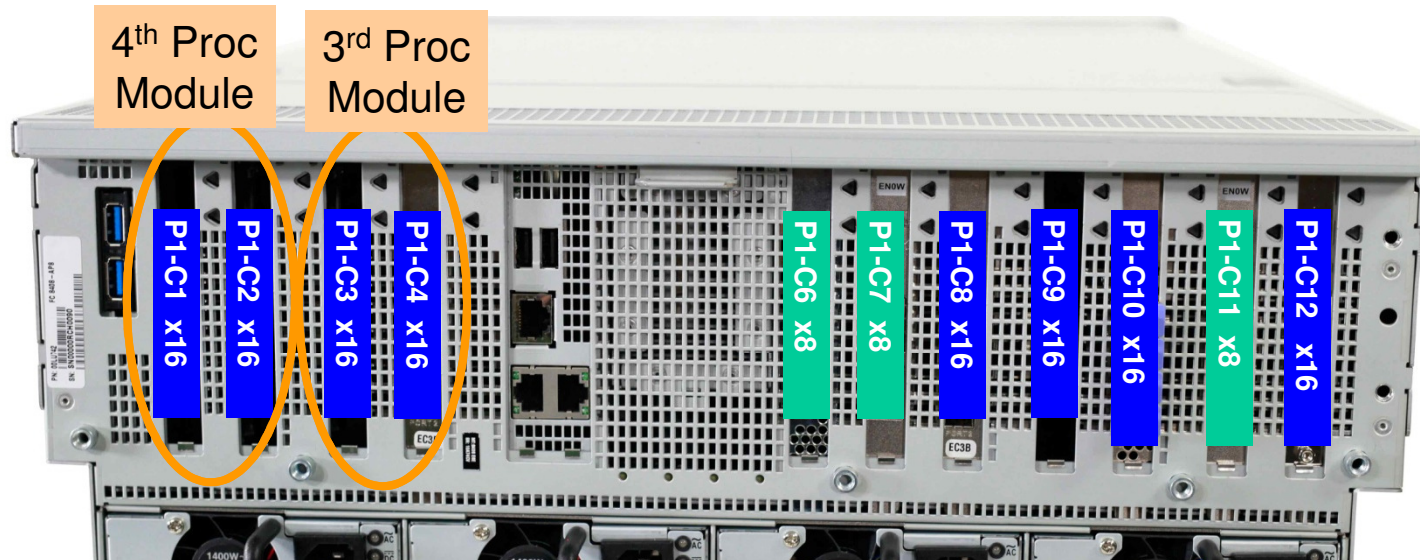


# Hot swap



| <b>HOT</b> | <b>NOT</b>  |
|------------|-------------|
| HDD        | RAM         |
| SSD        | CPU         |
| Fans       | I/O Modules |
| PSUs       | FSP         |

# Power E850 PCIe Slots in System Unit



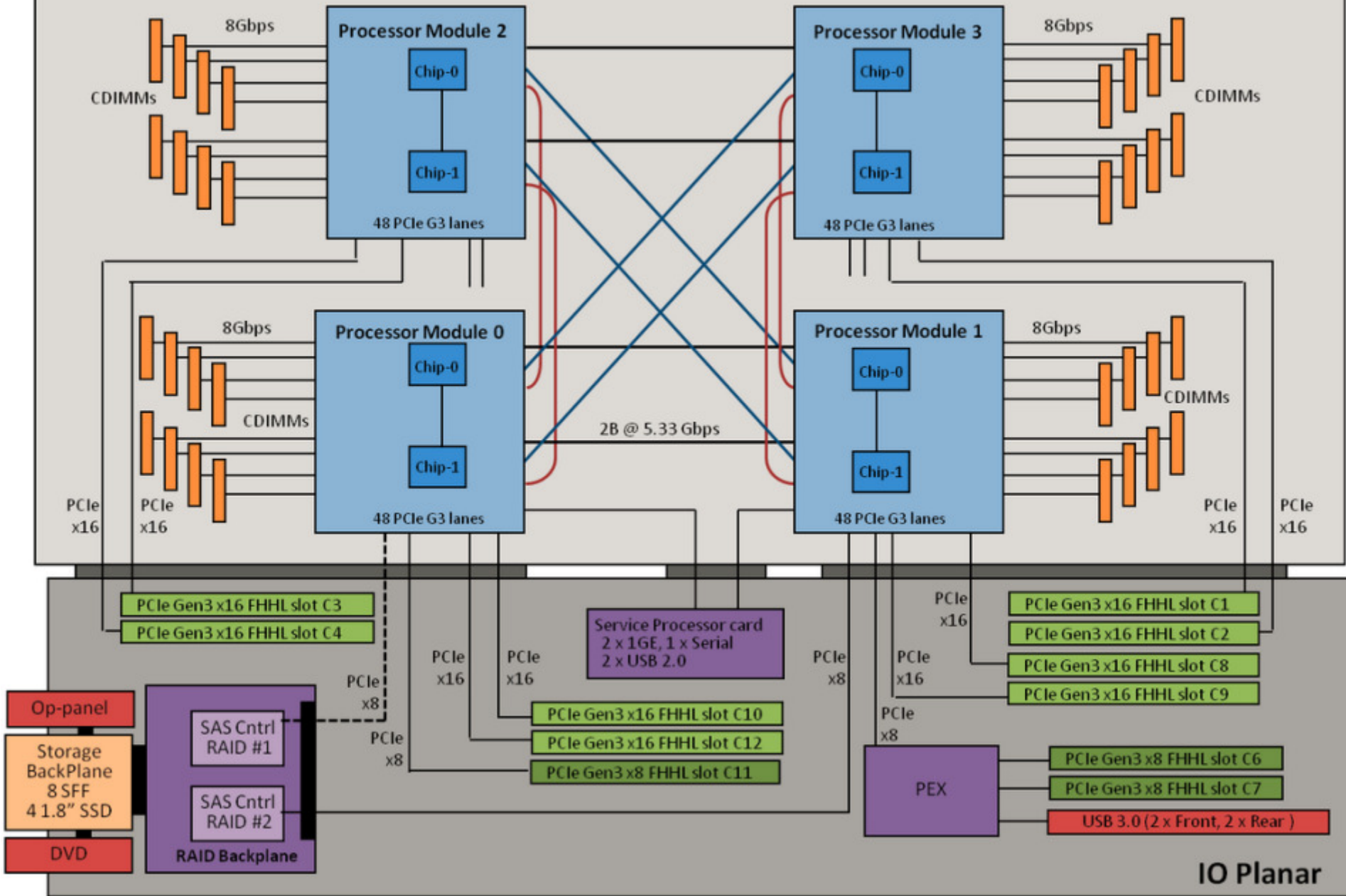
Up to 11 PCIe Gen3, full-high slots in the system unit

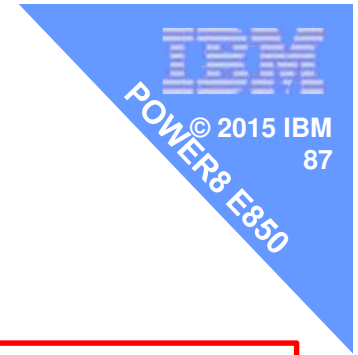
- For 2 processor modules: 3 x8 slots + 4 x16 slots = 7 total PCIe slots
- For 3 processor modules: 3 x8 slots + 6 x16 slots = 9 total PCIe slots  
(add C3 & C4)
- For 4 processor modules: 3 x8 slots + 8 x16 slots = 11 total PCIe slots  
(add C1 & C2)

x16 slots can be used for PCIe Gen3 I/O Drawer or PCIe adapters

7/9/11 slots available independent on the number or processor activations

# CPU Planar





# Questions:

- Not price
- Not rPerf / CPW
- Not eConfig

This is an Early Ship machine  
Yours will be slightly different

# Warning

## **about pictures and features:**

- This is an early / “proto-type” box
  - Details may differ from Generally Available machines
- Including but not limited to:
  - Packaging
  - Missing labels & Warning stickers
  - Handle colours may be different
  - Air flow barrier may be different



Next Time

July 22<sup>nd</sup> : Linux on POWER Field Experience  
Tom Watts



Previous Sessions:  
PowerSC Tools for IBM i  
HMC 8.20 Tech Preview  
The "Key" to IBM i Licensing  
POWER8 E870 from exper  
Linux on Power: Best Pract  
Linux for AIX/IBM i guys  
PowerKVM Deep Dive  
More Tricks Power Masters  
Power8 from hands-on  
Power up your Linux  
PowerVC  
PowerVP  
And more.....

Future Sessions →

- Suggestions Welcome



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