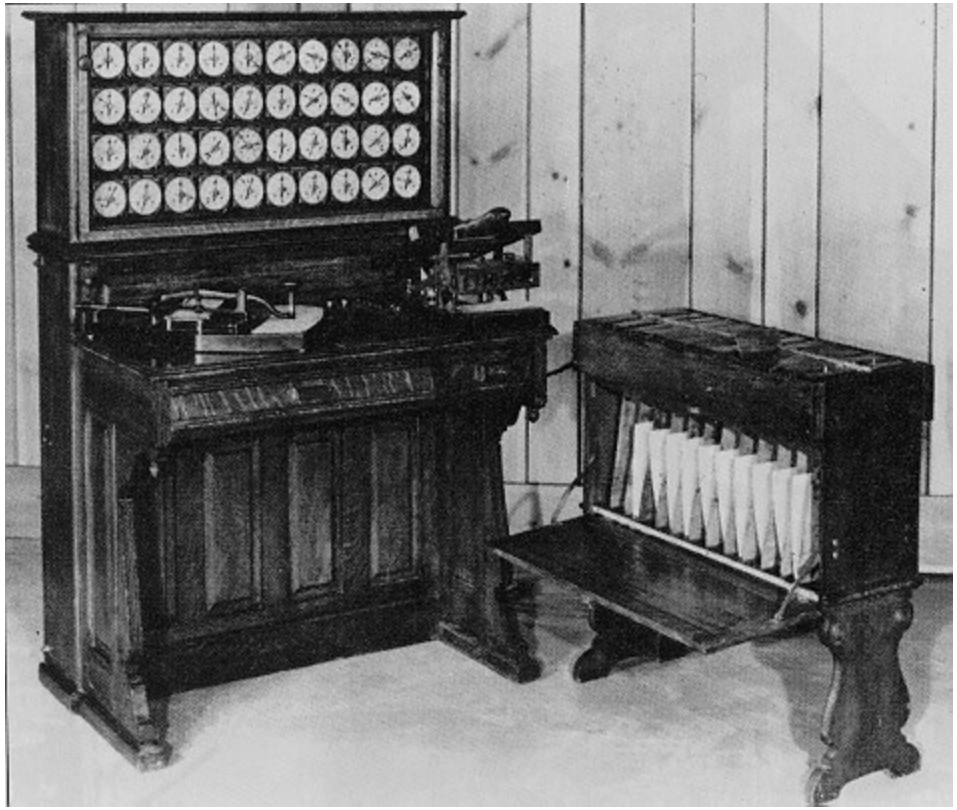
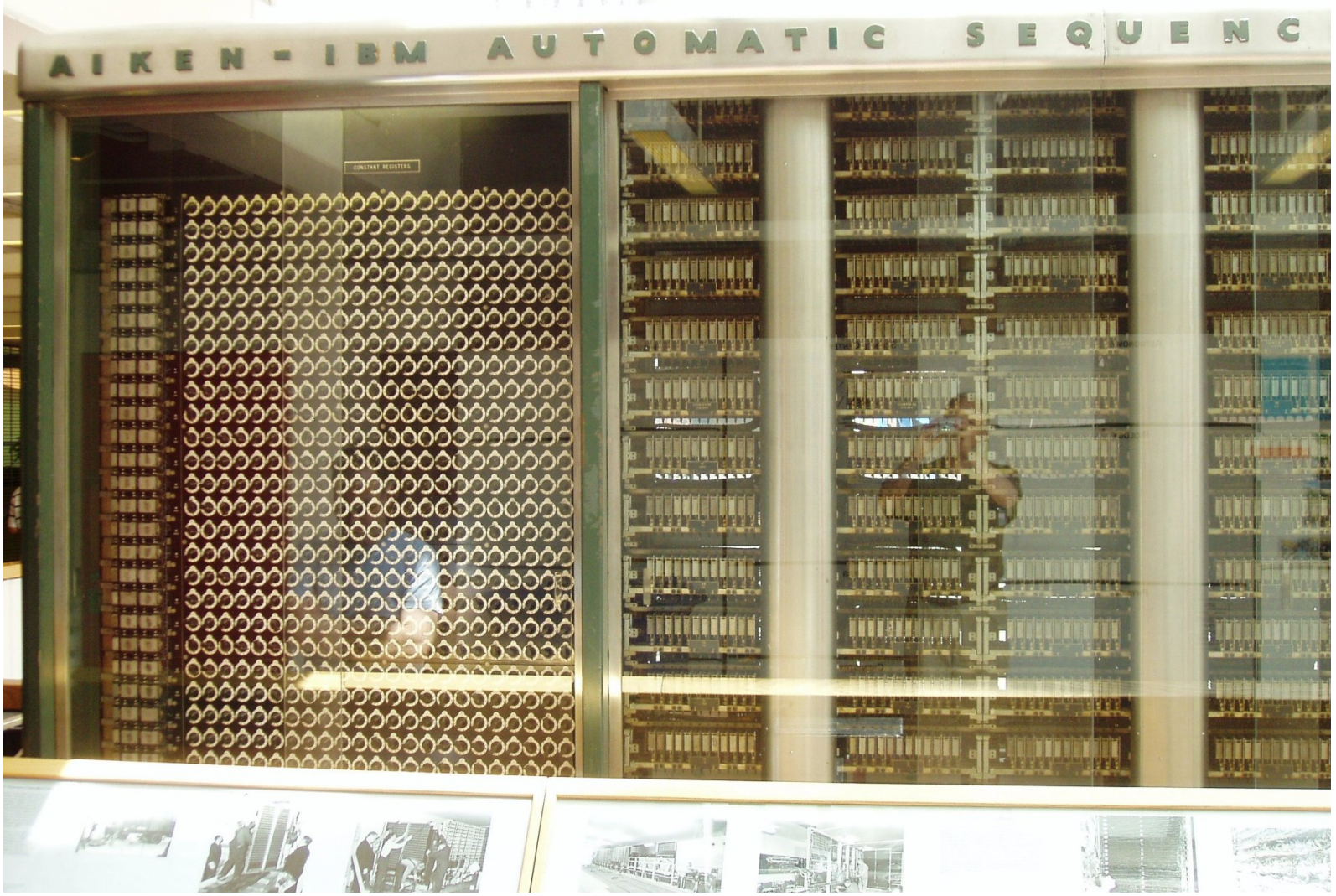
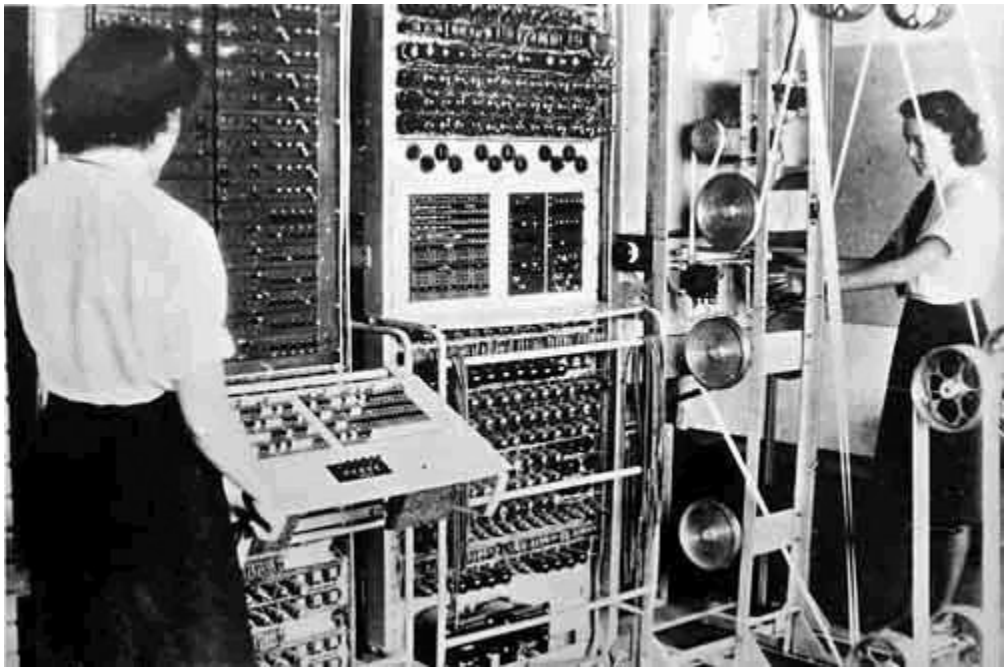


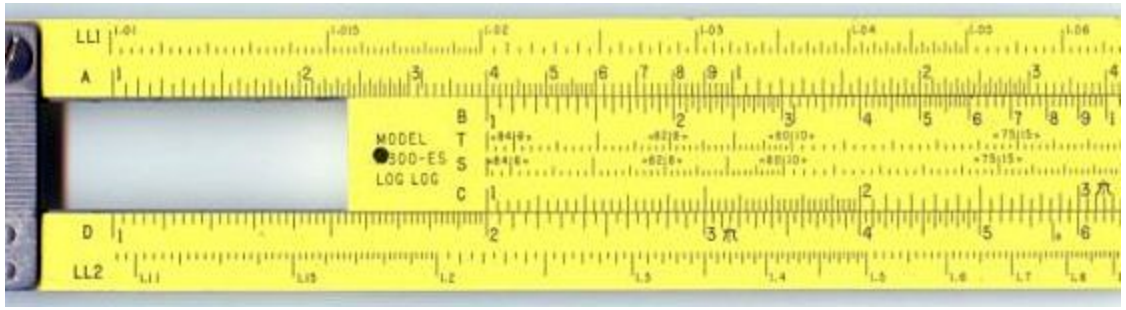
Hollerith-Rechner ca. 1890

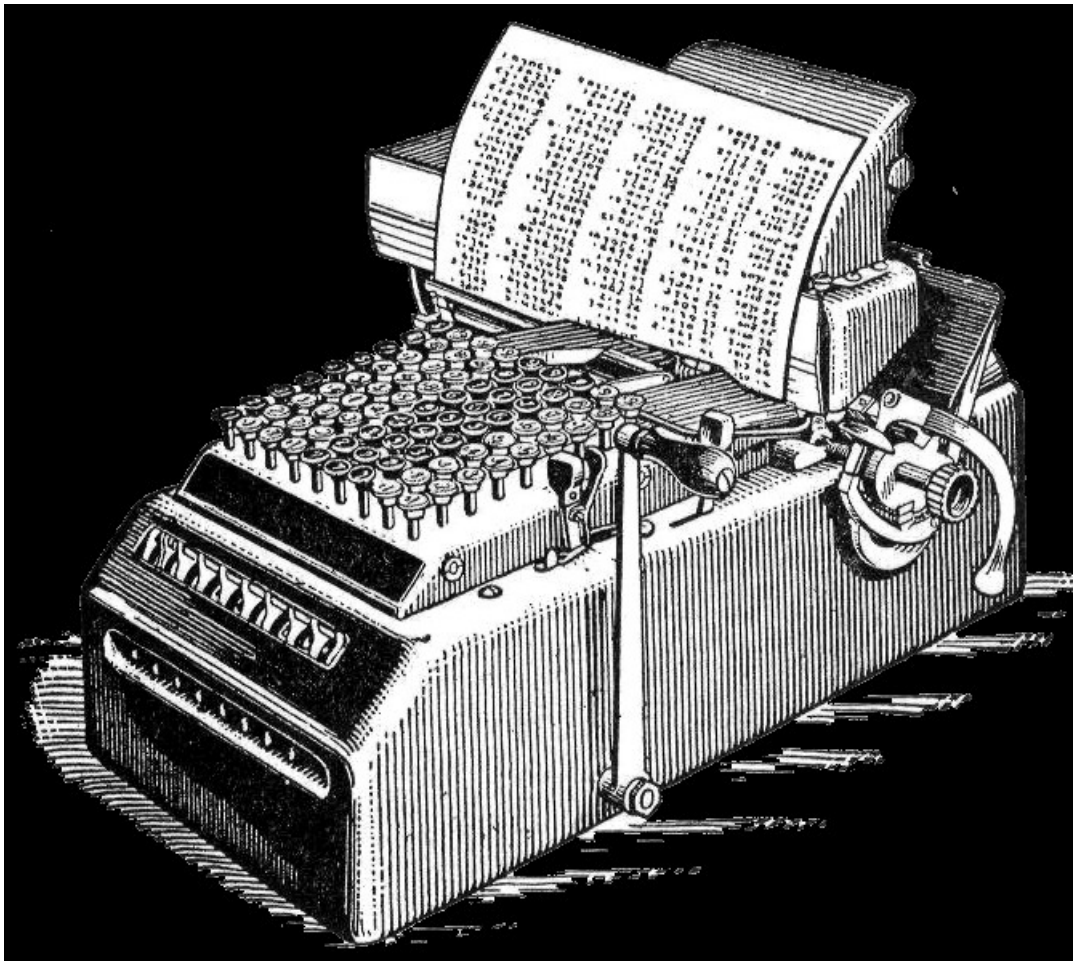
Mark I (1943-1944)
nur mechanische Teile!!



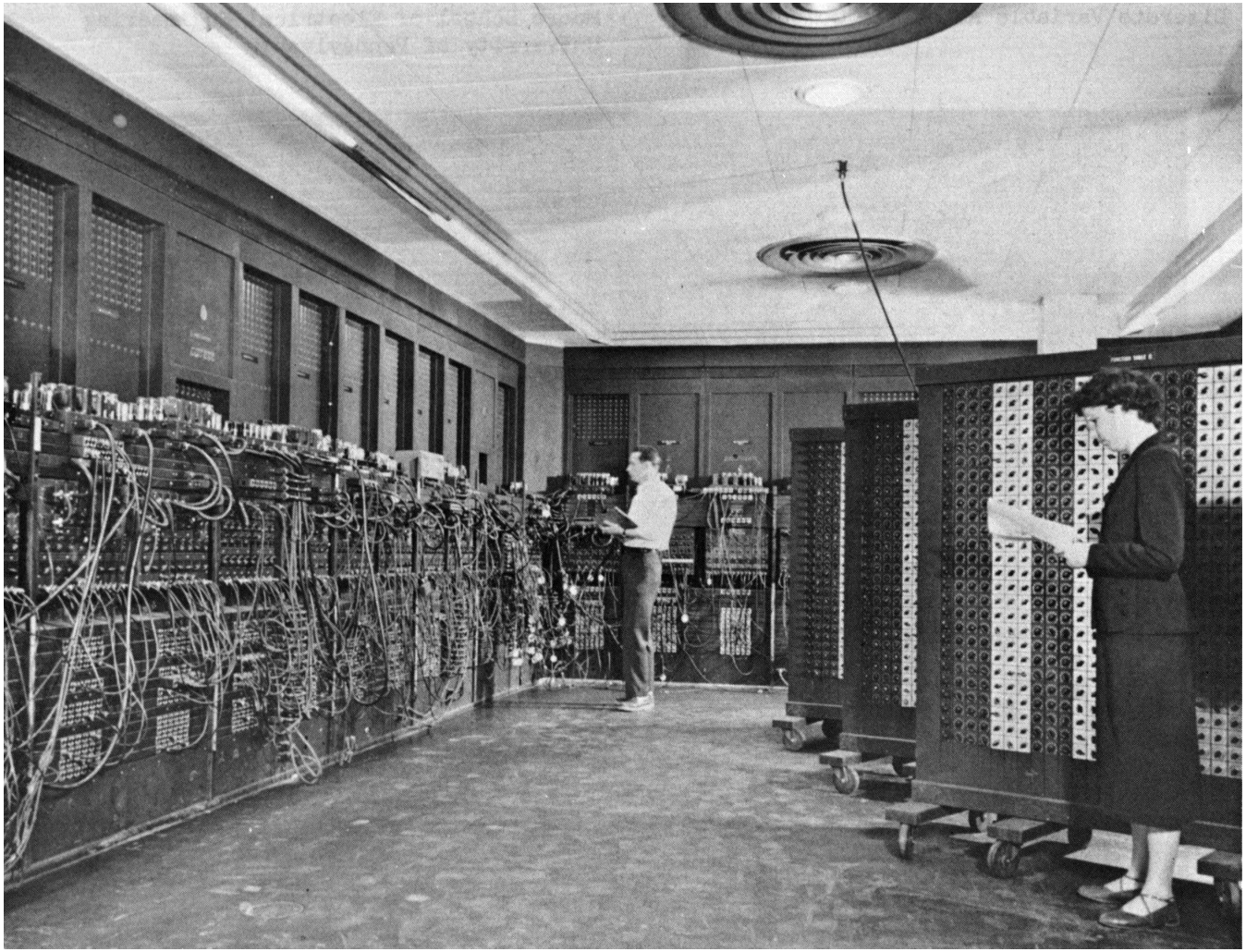


Mark II (Grace Hopper / COBOL)


LL1
A
MODEL
500-ES
LOG LOG
B
T
S
C
D
LL2



mechanischer Rechner von 1914



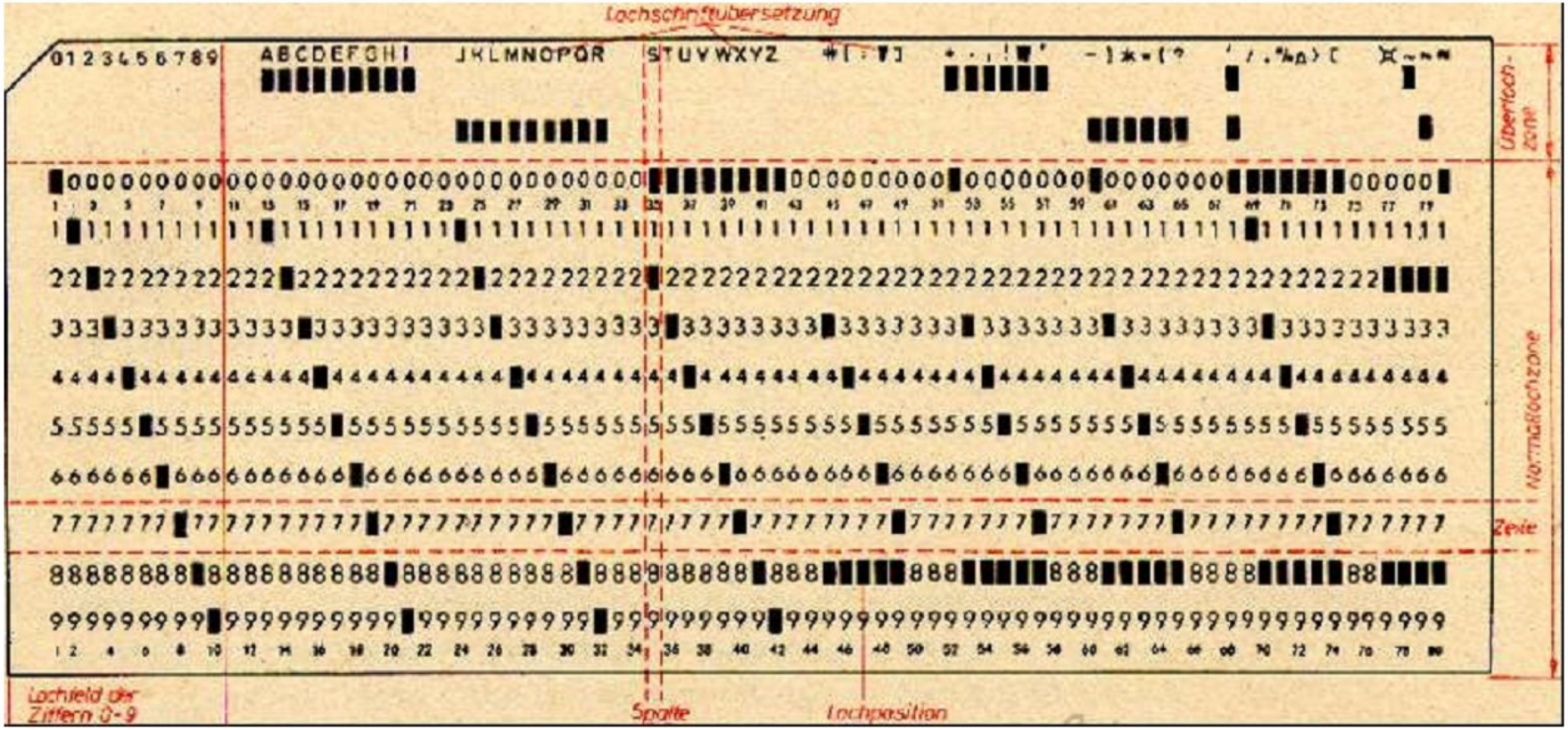
ENIAC 1948

Eigenschaften der ersten fünf Rechner

Modell	Land	Inbetrieb-nahme	Binär	Elektro-nisch	Programmierbar	Turing-mächtig
Zuse Z3	Deutsch-land	Mai 1941	Ja	Nein	Ja, durch Lochstreifen	Ja
Atanasoff-Berry-Computer	USA	Sommer 1941	Ja	Ja	Nein	Nein
Colossus	UK	1943	Ja	Ja	Teilweise, durch Neuverkabelung	Nein
Mark I	USA	1944	Nein	Nein	Ja, durch Lochstreifen	Ja
ENIAC	USA	1944	Nein	Ja	Teilweise, durch Neuverkabelung	Ja
		1948	Nein	Ja	Ja, durch eine Matrix aus Widerständen	Ja

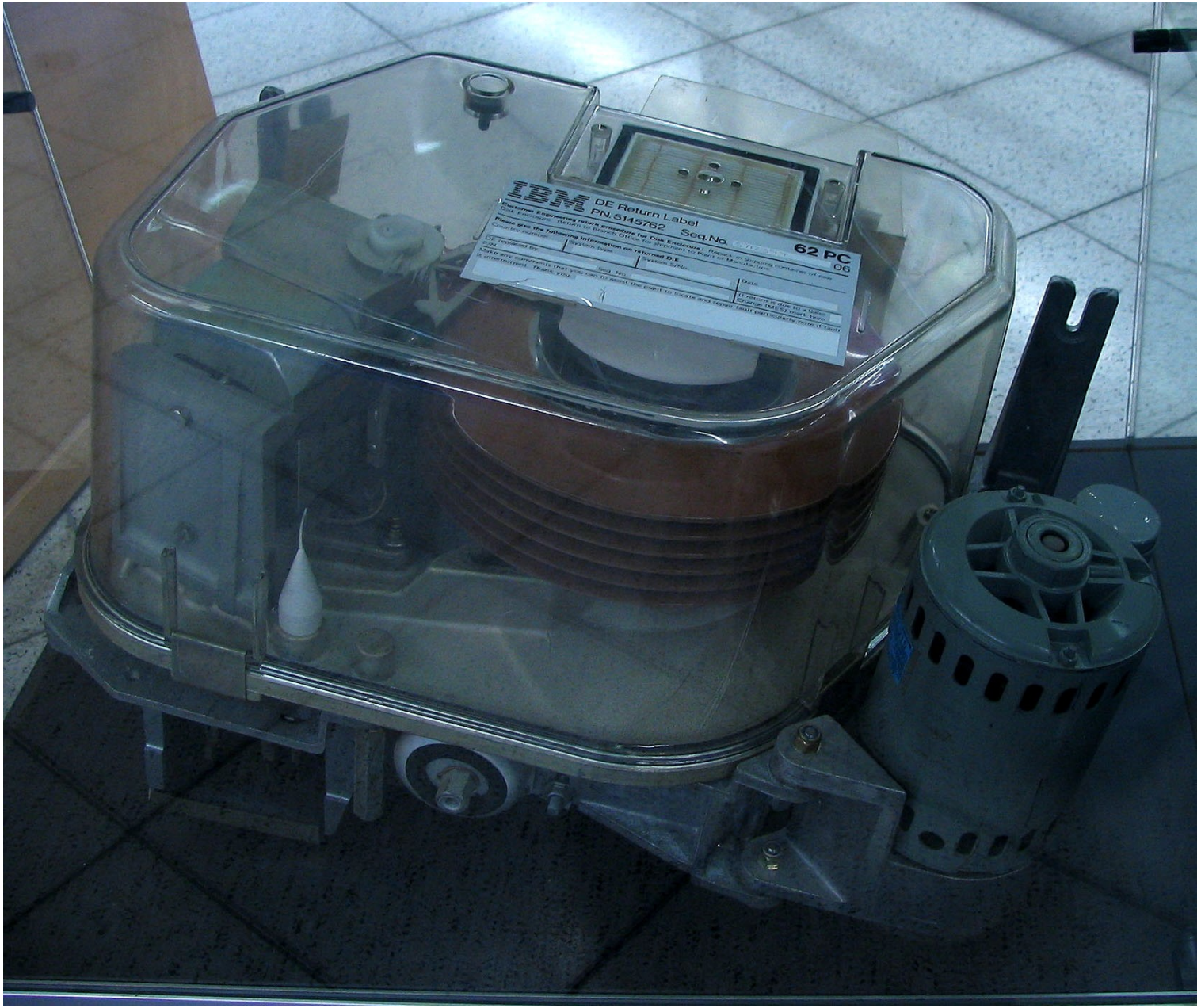

Ursprünglicher
S/360 Rechner
(Modell 62)
mit Bandeinheit und
Plattenspeicher, 1966


IBM
AUFSTELLUNGSMENUE
Alternativwerte auswaehlen
ECHO
Hauptanschluss
Zusatzanschluss
Interface:
RS-232C
IPRTS
9600
19200
KEINE
KEINE
CR
Stopbit:
Bis zu 20 alpha-
numerische Zeichen
Setup-Taste: Auswahl verlassen

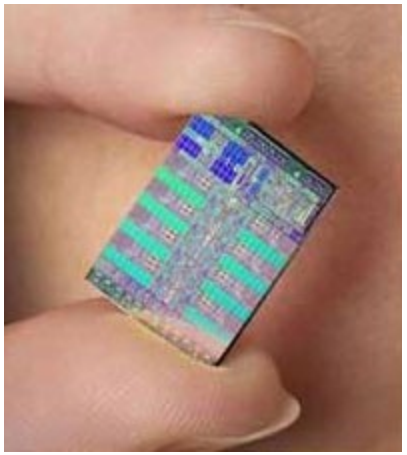

Lochschriftübersetzung
0 1 2 3 4 5 6 7 8 9
A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z
Überlochzone
Normallochzone
Zeile
Lochfeld der Ziffern 0-9
Spalte
Lochposition


IBM 026 Card Punch

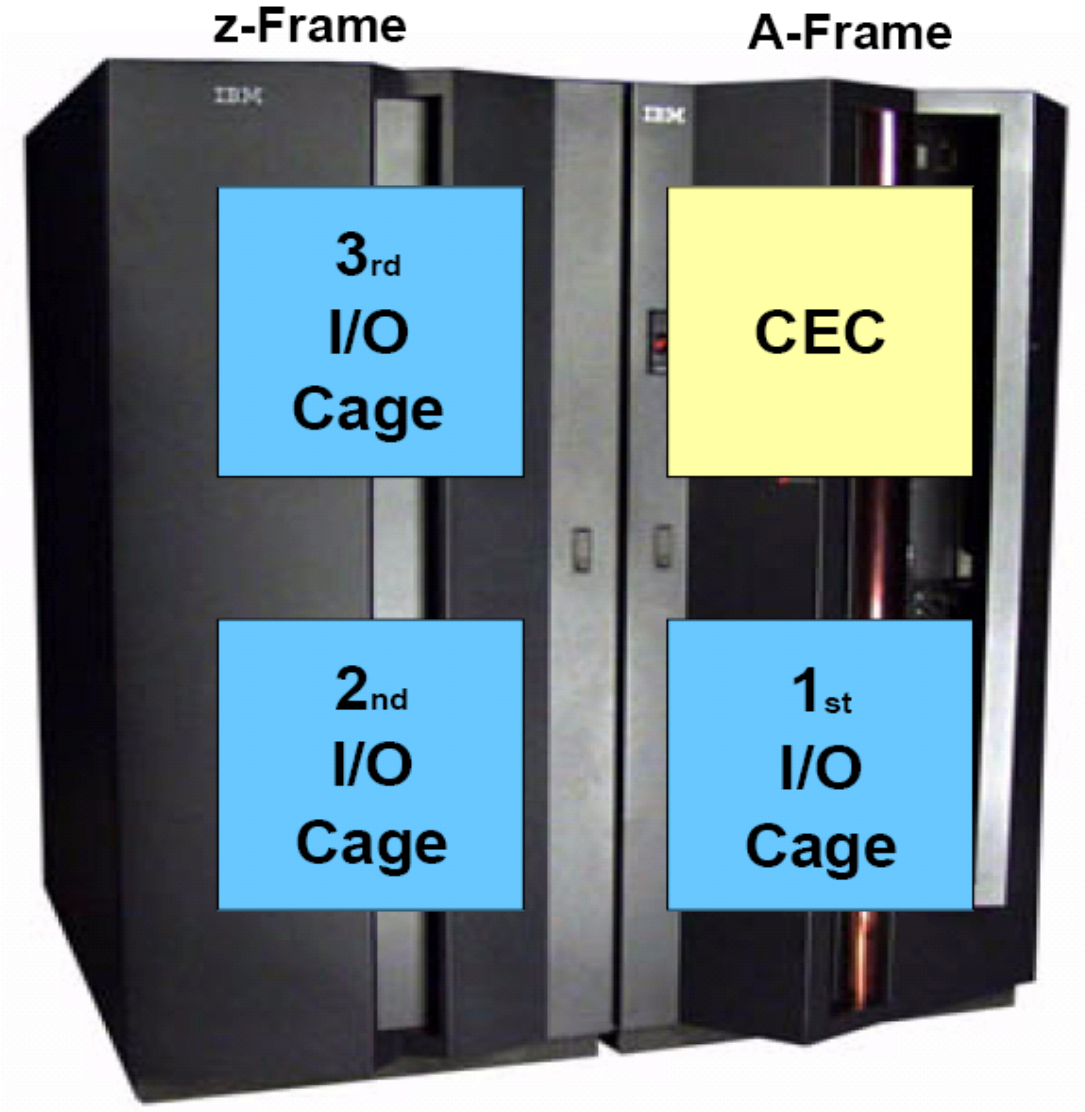

IBM
IBM
START
STOP
READY


IBM
DE Return Label
PN 5145762
Seq No
62 PC
06


IBM
PowerPC 601
© IBM 1992
PPC601FD-080-2
19425030KS

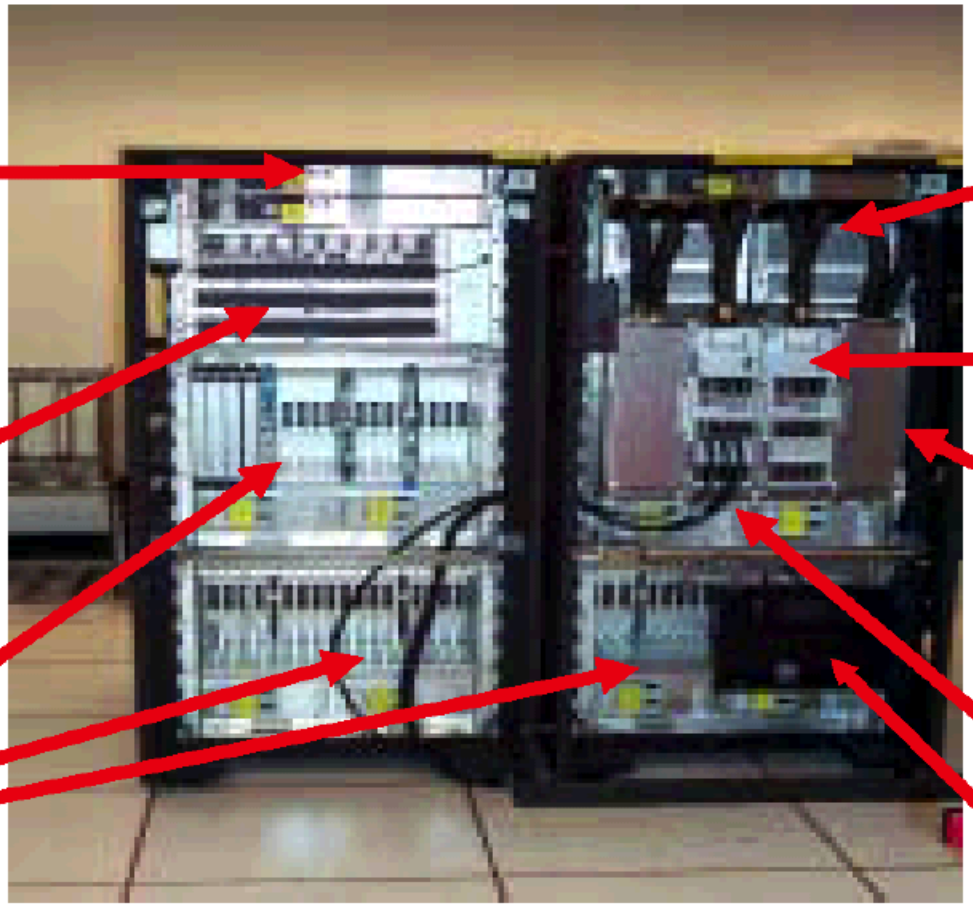


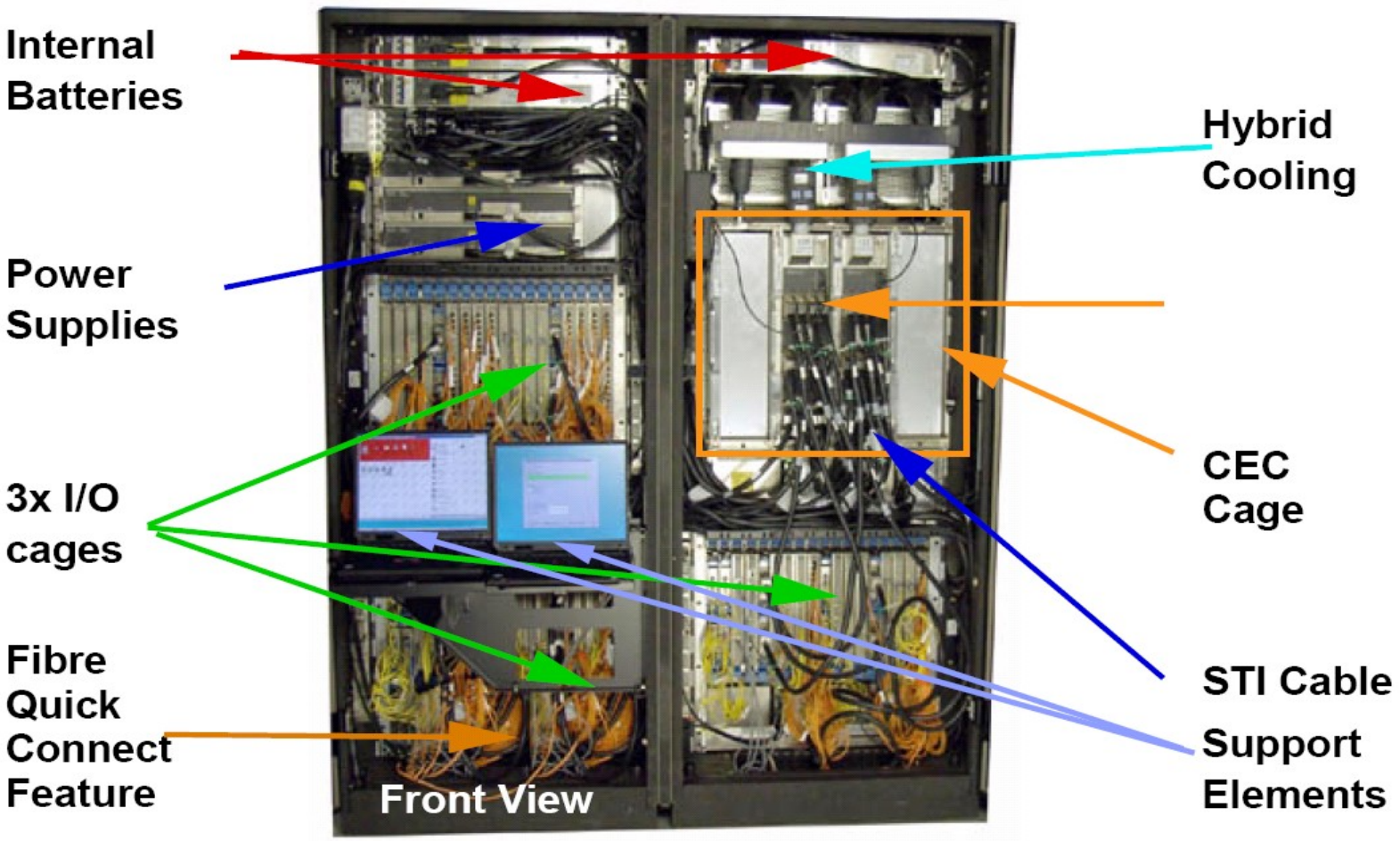

ALLIANCE 2
FRONT
FRONT

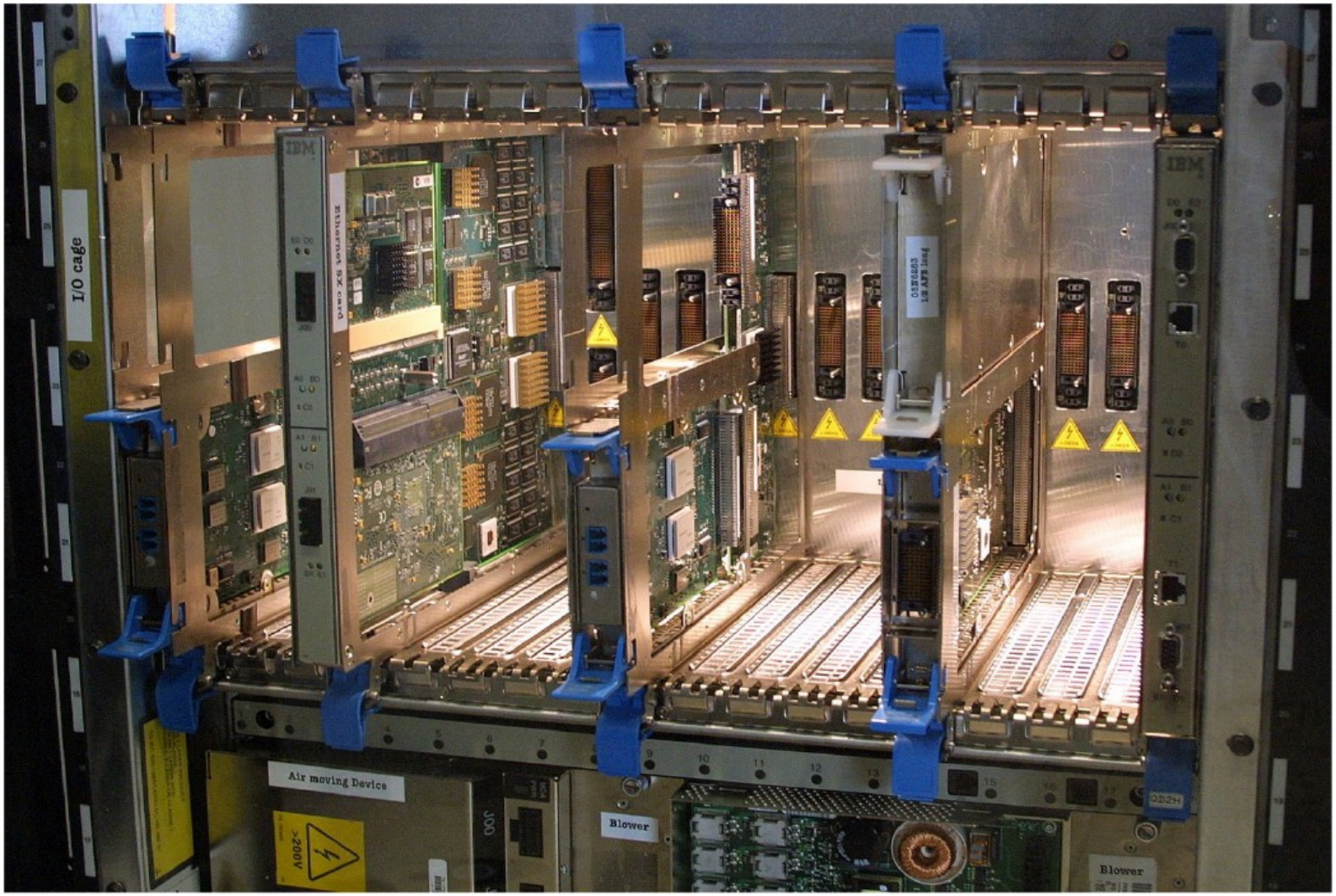


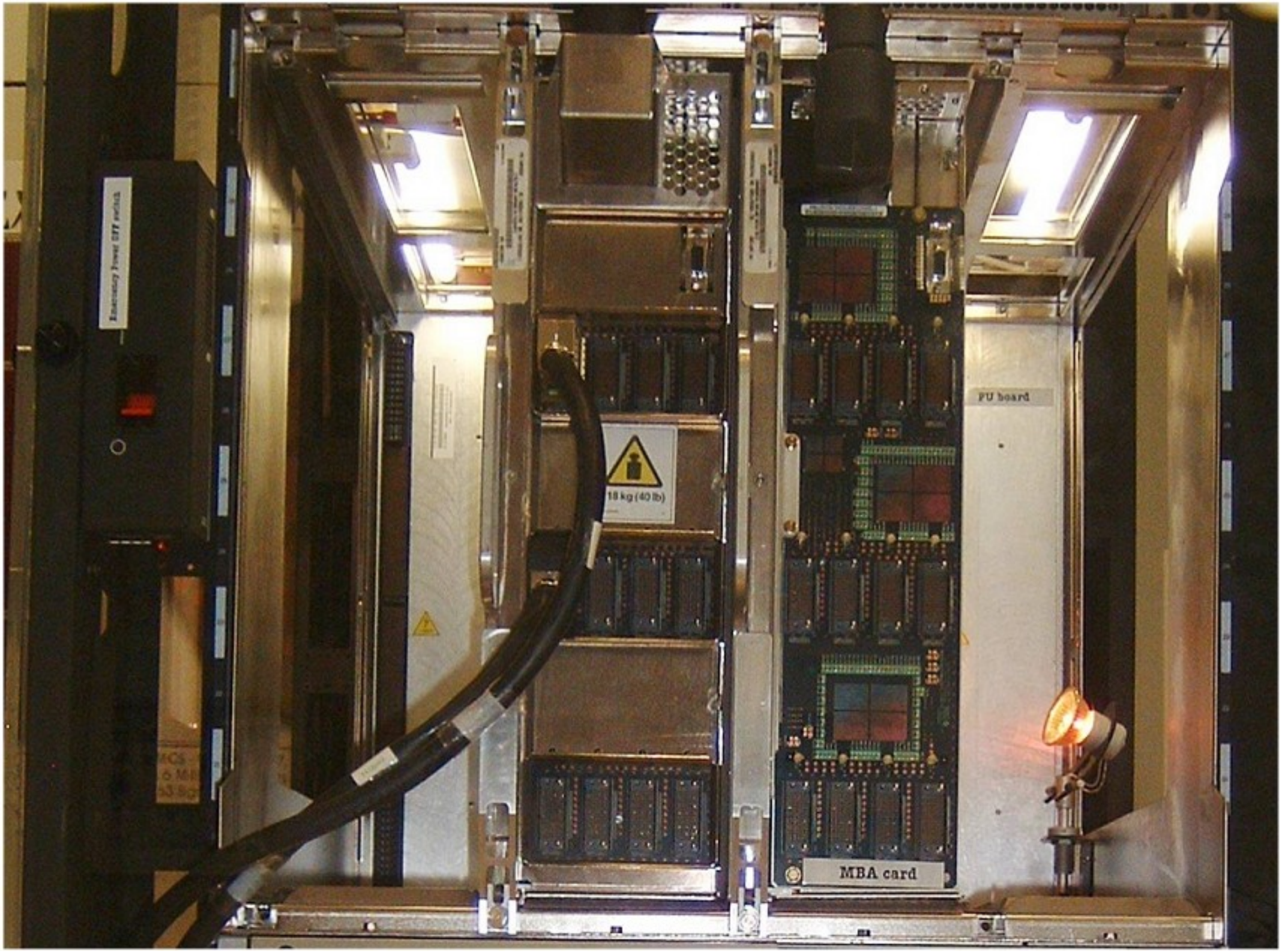
Front View

z990 System


Internal Batteries
Power Supply
IO cages
Cooling Units
Processor Book
CEC Cage
STI cables
Service Element


Internal Batteries
Power Supplies
3x I/O cages
Fibre Quick Connect Feature
Front View
Hybrid Cooling
CEC Cage
STI Cable
Support Elements


I/O cage
Air moving Device
Blower
Blower


FU board
MBA card

z890 Supported Operating System Software

Operating System	ESA/390 (31-bit)	z/Arch (64-bit)	Notes
z/OS Version 1 Release 2, 3, 4, 5	No*	Yes	1.3: OSA-ICC 1.4: 30 LPAR, 2 LCSS
z/OS.e Version 1 Release 3, 4, 5	No	Yes	(same as above)
OS/390® Version 2 Release 10	Yes	Yes	*9/04 End of Service*
Linux, 64-bit distribution	No	Yes	
Linux, 31-bit distribution	Yes	No	
z/VM Version 5	No	Yes	ALS
z/VM Version 4 Release 3, 4	Yes	Yes	4.4; exploitation
z/VM Version 3 Release 1	Yes	Yes	
VSE/ESA Version 2 Release 6, 7	Yes	No	
z/VSE** Version 3 Release 1	Yes	No	Preview
TPF Version 4 Release 1 (ESA mode only)	Yes	No	

* IBM Bimodal Accommodation Offering is available for z/OS 1.2, 1.3, and 1.4. This offering will not be provided for z/OS 1.5

** Note: z/VSE can execute in 31-bit mode only. It does not implement z/Architecture™, and specifically does not implement 64-bit mode capabilities. z/VSE is designed to exploit selected features of IBM zSeries hardware.

z9-109 Operating System Software

Operating System	ESA/390 (31-bit)	z/Arch (64-bit)
z/OS Version 1 Release 4, 5, 6, 7	No	Yes
Linux, 64-bit distribution	No	Yes
Linux, 31-bit distribution	Yes	No
z/VM Version 5 Release 1, 2	No	Yes
z/VM Version 4 Release 4	Yes	Yes
z/VSE™* 3.1, VSE/ESA™ 2.6, 2.7	Yes	No
z/TPF Version 1	No	Yes
TPF Version 4 Release 1 (ESA mode only)	Yes	No

*z/VSE can execute in 31-bit mode only. It does not implement z/Architecture™ and specifically does not implement 64-bit mode capabilities. z/VSE is designed to exploit select features of IBM System z9 and eServer zSeries hardware.

Note: Please refer to the latest PSP bucket for latest PTFs for new functions/features.