MAC HISTORY

A TABLE CHART GUIDE TO COMPARE THE CAPABILITIES OF THE ENTIRE APPLE MACINTOSH FAMILY

JANUARY 1995

128K	512K	Plus	512Ke	SE	II	IIx	SE/30	IIcx	IIci	Portable	IIfx	Classic	IIsi	LC
68000	68000	68000	68000	68000	68020	68030	68030	68030	68030	68000	68030	68000	68030	68020
8MHz	8MHz	8MHz	8MHz	8MHz	16MHz	16MHz	16MHz	16MHz	25MHz	16MHz	40MHz	8MHz	20MHz	16MHz
8/16	8/16	8/16	8/16	8/16	16/32	16/32	16/32	16/32	25/32	16/16	40/32	8/16	20/32	16/16
.7	.7	.7	.7	.7	2.6	3.9	3.9	3.9	6.3	1.3	10.0	.7	5.0	2.6
None	None	None	None	None	68881	68882	68882	68882	68882	None	68882	None	Optional	None
None	None	None	None	None	None	None	None	None	32k	None	32k	None	None	None
0	0	0	0	1	6	6	1	3	3	1	6	0	1	1
128k	512k	4mb	512k	4mb	68mb•	128mb•	128mb•	128mb•	128mb	9mb	128mb	4mb	65mb	10mb
N/A	N/A	1.25	N/A	1.25	1.25	1.25	1.25	1.25	1.25	1.25	3.0	1.25	1.25	1.5
Mono	Mono	Mono	Mono	Mono	Color	Color	Mono*	Color	Color	MonoA	Color	Mono	Color	Color
B&W	B&W	B&W	B&W	B&W	None	None	B&W	None	256	B&W	None	B&W	256	256
60W	60W	60W	60W	100W	230W	230W	75W	159W	159W	5W	230W	76W	160W	50W
Jan84	Sep84	Jan86	Apr86	Mar87	Mar87	Oct88	Jan89	Mar89	Sep89	Sep89	Mar90	Oct90	Oct90	Nov90
Apr86	Apr86	Oct90	Aug86	Oct90	Jan90	Oct90	Oct91	Mar91	Feb93	Oct91	Apr92	Sep92	Mar93	Mar92

ClassicII	Qdra700	Qdra900	PB100	PB140	PB170	LCII	Qdra950	PB145	Perf200	Perf400	Perf600	PB160	PB180	Duo210
68030	68040	68040	68000	68030	68030	68030	68040	68030	68030	68030	68030	68030	68030	68030
16MHz	25MHz	25MHz	16MHz	16MHz	25MHz	16MHz	33MHz	25MHz	16MHz	16MHz	32MHz	25MHz	33MHz	25MHz
16/16	25/32	25/32	16/16	16/32	25/32	16/16	33/32	25/32	16/16	16/16	16/32	25/32	33/32	25/32
3.9	22.0	22.0	1.3	3.9	6.3	3.9	29.0	6.3	3.9	3.9	6.5	6.3	8.3	6.3
None	Integrtd	Integrtd	None	None	68882	None	Integrtd	None	None	None	Optional	None	68882	Opt/Doc
None	8k	8k	None	None	None	None	8k	None	None	None	None	None	None	None
0	2	5	0	0	0	1	5	0	0	1	3	0	0	0
10mb	68mb	256mb	8mb	8mb	8mb	10mb	256mb	8mb	10mb	10mb	68mb	14mb	14mb	24mb
1.25	5.0	5.0	1.5	1.5	1.5	1.5	5.0	1.5	1.25	1.5	1.5	1.5	1.5	1.5
Mono*	Color	Color	MonoP	MonoP*	MonoA*	Color	Color	MonoP*	Mono*	Color	Color	GraysP*	GraysA*	GraysP*
B&W	16.7Mil	16.7Mil	B&W	B&W	B&W	256	16.7Mil	B&W	B&W	256	32,768	16Grays	16Grays	16Grays
76W	230W	600W	15/17W	15/17W	15/17W	50W	600W	15/17W	76W	50W	230W	15/17W	15/17W	25W
Oct91	Oct91	Oct91	Oct91	Oct91	Oct91	Mar92	May92	Aug92	Sep92	Sep92	Sep92	Oct92	Oct92	Oct92
Sep93	Mar93	May92	Aug92	Aug92	Oct92	Mar93	Current	Jun93	Apr93	Apr93	Oct93	Aug93	May94	Oct93

Duo230	IIvx	IIvi	PB165c	LCIII	CClassic	Cent610	Cent650	Qdra800	WGS60	WGS80	WGS95
68030	68030	68030	68030	68030	68030	68040	68040	68040	68040	68040	68040
33MHz	32MHz	16MHz	33MHz	25MHz	16MHz	20MHz	25MHz	33MHz	20MHz	33MHz	33MHz
33/32	16/32	16/32	33/32	25/32	16/16	20/32	25/32	33/32	20/32	33/32	33/32
8.3	7.0	4.3	8.3	6.3	3.9	17.6	22.0	29.0	17.6	29.0	29.0
Opt/Doc	68882	Optional	68882	Optional	Optional	None	Integrtd^	Integrtd	None	Integrtd	Integrtd
None	32k	None	None	None	None	8k	8k	8k	8k	8k	8k+512k
0	3	3	0	1	1	1	3	3	1	3	5
24mb	68mb	68mb	14mb	36mb	10mb	68mb	136mb^	136mb	68mb	136mb	256mb
1.5	1.5	1.5	1.5	1.5	1.25	5.0	5.0	5.0	5.0	5.0	5.0
GraysP*	Color	Color	ColorP	Color	Color	Color	Color	Color	Color	Color	Color
16Grays	32,768	32,768	256	32,768	32,768	32,768	32,768	32,768	32,768	32,768	16.7Mil
25W	230W	N/A	24W	50W	100W	202W	230W	454W	202W	454W	600W
Oct92	Oct92	Oct92	Feb93	Feb93	Feb93	Feb93	Feb93	Feb93	Mar93	Mar93	Mar93
Jul94	Oct93	Feb93	Dec93	Current	May94	Oct93	Oct93	Mar94	Current	Current	Current

TABLE KEY

Processor
CPU Speed
DataPathSpeed/Size
MIPS Rating
Math CoProcessor
Memory Cache
Expansion Slots
Maximum RAM
SCSI Transfer Rate
Video Display
Max Color Density
Maximum Watts
Introduced
Discontinued

Mac History by Harry Phillipo

"LaserHistory1" 86 KB 1995-01-22 dpi: 72h x 72v pix: 576h x 721v

MAC HISTORY

A TABLE CHART GUIDE TO COMPARE THE CAPABILITIES OF THE ENTIRE APPLE MACINTOSH FAMILY

JANUARY 1995

Perf405	Perf430	Perf450	PB145B	PB180c	LC520	C660AV	Q840AV	PB165	Perf410	Perf460	Perf466	Perf467	Perf475	Perf476
68030	68030	68030	68030	68030	68030	68040	68040	68030	68030	68030	68030	68030	68040	68040
16MHz	16MHz	25MHz	25MHz	33MHz	25MHz	25MHz	40MHz	33MHz	16MHz	33MHz	33MHz	33MHz	25MHz	25MHz
16/16	16/16	25/32	25/32	33/32	25/32	25/32	40/32	33/32	16/16	33/32	33/32	33/32	25/32	25/32
3.9	3.9	6.3	6.3	8.3	6.3	22.0	35.0	8.3	3.9	8.3	8.3	8.3	22.0	22.0
None	None	Optional	None	68882	Optional	Integrtd	Integrtd	None	None	Optional	Optional	Optional	None	None
None	None	None	None	None	None	8k	8k	None	None	None	None	None	8k	8k
1	1	1	0	0	1	1	3	0	1	1	1	1	1	1
10mb	10mb	36mb	8mb	14mb	36mb	68mb	128mb	14mb	10mb	36mb	36mb	36mb	36mb	36mb
1.5	1.5	1.5	1.5	1.5	1.5	5.0	5.0	1.5	1.5	1.5	1.5	1.5	5.0	5.0
Color	Color	Color	MonoP*	ColorA	Color	Color	Color	GraysP*	Color	Color	Color	Color	Color	Color
256	256	32,768	B&W	256	32,768	32,768	16.7Mil	16Grays	256	32,768	32,768	32,768	32,768	32,768
50W	50W	50W	15/17W	24W	60W	202W	454W	15/17W	50W	50W	50W	50W	30W	30W
Apr93	Apr93	Apr93	Jun93	Jun93	Jun93	Jul93	Jul93	Aug93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93
Current	Current	Current	Jul94	Mar94	Current	Oct93	Jul94	Jul94	Current	Current	Current	Current	Current	Current

Perf550	LC475	Qdra605	Qdra610	Qdra650	Duo250	Duo270c	Q660AV	MacTV	ClrClsII	Perf275	Perf560	LC550	LC575	610DOS
68030	68040	68040	68040	68040	68030	68030	68040	68030	68030	68030	68030	68030	68040	68040
33MHz	25MHz	25MHz	25MHz	33MHz	33MHz	33MHz	25MHz	32MHz	33MHz	33MHz	33MHz	33MHz	33MHz	25MHz
33/32	25/32	25/32	25/32	33/32	33/32	33/32	25/32	16/32	33/32	33/32	33/32	33/32	33/32	25/32
8.3	22.0	22.0	22.0	29.0	8.3	8.3	22.0	7.0	8.3	8.3	8.3	8.3	29.0	22.0
Optional	None	None	Integrtd“	Integrtd	Opt/Doc	68882	Integrtd	None	Optional	Optional	Optional	Optional	None	None
None	8k	8k	8k	8k	None	None	8k	None	None	None	None	None	8k	8k
1	1	1	1	3	0	0	1	0	1	1	1	1	1	1
36mb	36mb	36mb	68mb	136mb	24mb	32mb	68mb	8mb	36mb	36mb	36mb	36mb	36mb	68mb
1.5	5.0	5.0	5.0	5.0	1.5	1.5	5.0	1.5	1.5	1.5	1.5	1.5	5.0	5.0
Color	Color	Color	Color	Color	GraysA*	ColorA*	Color	Color,TV	Color	Color	Color	Color	Color	Color
32,768	32,768	32,768	32,768	32,768	16Grays	32,768	32,768	256	32,768	32,768	32,768	32,768	32,768	32,768
60W	30W	53W	202W	230W	25W	25W	202W	60W	100W	100W	60W	60W	60W	202W
Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Oct93	Jan94	Feb94	Feb94	Feb94
Current	Current	Current	May94	Current	May94	May94	Current	Current	Current	Current	Current	Current	Current	Jun94

6100/60	7100/66	8100/80	WS6150	WS8150	WS9150	Perf575	Perf577	Perf578	PB520	PB520c	PB540
PPC601	PPC601	PPC601	PPC601	PPC601	PPC601	68040	68040	68040	68040	68040	68040
60MHz	66MHz	80MHz	60MHz	80MHz	80MHz	33MHz	33MHz	33MHz	25MHz	25MHz	33MHz
30/64	33/64	40/64	30/64	40/64	40/64	33/32	33/32	33/32	25/32	25/32	33/32
						29.0	29.0	29.0	22.0	22.0	29.0
Integrtd	Integrtd	Integrtd	Integrtd	Integrtd	Integrtd	None	None	None	None	None	None
32k	32k	32+256K	32+256k	32+256k	32+512K	8k	8k	8k	8k	8k	8k
1	3	3	1	3	4	1	1	1	2	2	2
72mb	136mb	264mb	72mb	264mb	264mb	36mb	36mb	36mb	36mb	36mb	36mb
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Color	Color	Color	Color	Color	Color	Color	Color	Color	GraysP*	ColorP*	GraysA*
32,768	16.7Mil	16.7Mil	32,768	16.7Mil	16.7Mil	32,768	32,768	32,768	16 Grays	256	64 Grays
202W	230W	454W	202W	454W	600W	60W	60W	60W	40W	40W	40W
Mar94	Mar94	Mar94	Apr94	Apr94	Apr94	Apr94	Apr94	Apr94	May94	May94	May94
Jan95	Jan95	Jan95	Current	Current	Current	Current	Current	Current	Current	Current	Oct94

TABLE KEY

Processor
CPU Speed
DataPathSpeed/Size
MIPS Rating
Math CoProcessor
Memory Cache
Expansion Slots
Maximum RAM
SCSI Transfer Rate
Video Display
Max Color Density
Maximum Watts
Introduced
Discontinued

Mac History by Harry Phillipo

“LaserHistory2” 86 KB 1995-01-22 dpi: 72h x 72v pix: 576h x 721v

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JANUARY 1995

PB540c	Duo280	Duo280c	LC630	Perf630	Perf635	Perf636	Perf638	Qdra630	PB150	Pf6110	Pf6112	Pf6115	Pf6117	Pf6118
68040	68040	68040	68040	68040	68040	68040	68040	68040	68030	PPC601	PPC601	PPC601	PPC601	PPC601
33MHz	33MHz	33MHz	33MHz	33MHz	33MHz	33MHz	33MHz	33MHz	33MHz	60MHz	60MHz	60MHz	60MHz	60MHz
33/32	33/32	33/32	33/32	33/32	33/32	33/32	33/32	33/32	33/32	30/64	30/64	30/64	30/64	30/64
29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	8.3					
None	None	None	None	None	None	None	None	Integrtd	None	Integrtd	Integrtd	Integrtd	Integrtd	Integrtd
8k	8k	8k	8k	8k	8k	8k	8k	8k	None	32k	32k	32k	32k	32k
2	0	0	1	1	1	1	1	1	0	1	1	1	1	1
36mb	40mb	40mb	36mb	36mb	36mb	36mb	36mb	36mb	40mb	72mb	72mb	72mb	72mb	72mb
5.0	5.0	5.0	5.0/Ext	5.0/Ext	5.0/Ext	5.0/Ext	5.0/Ext	5.0/Ext	1.5/Ext	5.0	5.0	5.0	5.0	5.0
ColorA*	GraysA*	ColorA*	Color	Color	Color	Color	Color	Color	GraysP*	Color	Color	Color	Color	Color
32,768	16 Grays	32,768	32,768	32,768	32,768	32,768	32,768	32,768	4 Grays	32,768	32,768	32,768	32,768	32,768
40W	25W	36W	150W	150W	150W	150W	150W	150W	15/17W	202W	202W	202W	202W	202W
May94	May94	May94	Jul94	Jul94	Jul94	Jul94	Jul94	Jul94	Jul94	Oct94	Oct94	Oct94	Oct94	Oct94
Current	Current	Current	Current	Current	Current	Current	Current	Current	Current	Current	Current	Current	Current	Current

8100/110	6100/66	7100/80	8100/100	TABLE KEY
PPC601	PPC601	PPC601	PPC601	Processor
110MHz	66MHz	80MHz	100MHz	CPU Speed
55/64	33/64	40/64	50/64	DataPathSpeed/Size
				MIPS Rating
Integrtd	Integrtd	Integrtd	Integrtd	Math CoProcessor
32+256K	32+256K	32+256k	32+256K	Memory Cache
3	1	3	3	Expansion Slots
264mb	72mb	136mb	264mb	Maximum RAM
5.0	5.0	5.0	5.0	SCSI Transfer Rate
Color	Color	Color	Color	Video Display
16.7Mil	32,768	16.7Mil	16.7Mil	Max Color Density
454W	202W	230W	454W	Maximum Watts
Mar94	Jan95	Jan95	Jan95	Introduced
Current	Current	Current	Current	Discontinued

NOTES TO THE TABLE CHARTS

- Needs Mode 32 or 32-bit Enabler for >8mb RAM.
- * Has color capable ROM for an external monitor.
- ^ Centris 650 4/80 model has maximum RAM of 132mb and does not include a Math CoProcessor.
- " Quadra 610 8/160 model does not include a Math CoProcessor.

1. Macintosh SEs since Aug 1989 have FDHD SuperDrive floppies installed.
2. Macintosh Portables since Feb 1991 have backlit displays to improve brightness.
3. LCD screens have an A or P following display type, denoting A for Active Matrix and P for Passive Matrix.
4. Maximum RAM determined by 16mb SIMMs for 30 pin slots, 32mb SIMMs for 72 pin slots, or by ROM limitation.
5. Expansion slots include total of NuBus and/or processor direct slots available at one time.
6. Data Path speed is in MHz and Data Path size is in bits.
7. Some words have been abbreviated: Qdra or Q=Quadra, Cent or C=Centris, PB=PowerBook, CClassic= Color Classic, Perf or Pf=Performa, WGS or WS=Workgroup Server, ClrClsII=Color Classic II, 610DOS=Quadra 610 DOS Compatible, Opt=Optional, Doc=Duo Dock, Integrtd=Integrated, B&W=Black and White, W=Watts, PM=Power Macintosh, PPC=PowerPC, Ext=External, and Mil=Millions.
8. Workgroup Server 95 can come with a 128k, 256k, or 512k cache card.
9. MIPS = MHz/Instruction Cycle Count/Memory System Delay (Using MIPS ratings can be misleading as bench-marks can differ and instructions may not take the same amount of time).

Mac History by Harry Phillipo

"LaserHistory3" 60 KB 1995-01-22 dpi: 72h x 72v pix: 576h x 720v

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NOTES TO THE TABLE CHARTS CONTINUED

10. SCSI Transfer Rate is the theoretical maximum asynchronus sustained data transfer rate in mb/sec.
11. Maximum Color Density is the amount of colors that can be displayed on a 14" screen of 640x480 resolution or an integrated screen at one time with maximum internal video RAM or circuitry. Some Macintoshs require video cards to display any video and are noted as "None". A PowerBook 160, 165, or 180 can drive a 14" screen at 256 colors with their video out capabilities. Video cards not supplied with the machines, which can provide up to 16.7 million colors on most screens, were not considered.
12. Maximum Watts is the total amount of peak watts input during the first 12 seconds at startup (worse case scenario).
13. Quadra 900 and 950, and Power Macintosh 8100/80 have dual channel SCSI, internal and external, which are electrically separate. This allows for disk arrays and prevents interuptions from equipment failure from the other channel.
14. Centris and Quadra 650, and Quadra 800 allow for memory interleaving. Interleaving allows 68040 processor to perform burst access to move data between its caches and memory. Depending on the application, it can speed up burst access by as much as 30% and reduce overall access time of processor into DRAM.
15. Centris or Quadra 660AV has a 55MHz digital signal processor, and Quadra 840AV has a 66MHz digital signal processor for video and sound.
16. Centris or Quadra 660AV, and Quadra 840AV have a performance enhancing Digital Audio Visual connector incorporated with a NuBus slot, which allows NuBus cards that have DAV connectors to manipulate audio and video signals directly from the main logic board.
17. Centris and Quadra 660AV, Quadra 840AV, and Power Macintoshs have a fully asynchronous SCSI manager and direct memory access allowing each of several SCSI drives to have multiple requests outstanding, thereby increasing overall throughput.
18. Centris 660AV and Quadra 660AV are the same machine with only a name change.
19. IIvi is not sold in America.
20. Color Classic II and Performa 275 are only available in Asia.
21. Performa 560 is the Money Magazine special edition with financial software, and is available only in limited quantities.
22. Quadra 610 DOS Compatible also has a 486/25 SX Intel processor, which has a maximum of 32mb RAM available and 512k VRAM for 256 colors at 640x480 resolution.
23. Workgroup Server 95+ is both a software and hardware upgrade. It has new brackets for up to five internal drives.
24. Power Macintosh 6100/60, 7100/66, 7100/80, 8100/80, and 8100/100 can be configured from Apple as AV models allowing for the same video digitization and telephony found in the earlier AV machines. The other PowerMacintosh models that do not come with an AV option can have an Apple AV card added after purchase. Each Power Macintosh AV includes a DAV slot.
25. Power Macintosh 6100s, 7100s, and 8100s have 64bit data paths, but only 32bit address busses.
26. Power Macintosh 6100/66, 7100/80, 8100/80, 8100/100, and 8100/110 come with 256k second level cache installed. This was available as an option after purchase on the 6100/60 and 7100/66 Power Macintoshs.
27. Workgroup Server 9150 has dual channel, high speed SCSI DMA interface. It can support up to 7 SCSI devices internally and 7 devices externally.
28. PowerBook 500 series have a PDS slot that can be converted to two PCMCIA slots with an adapter.
29. PowerBook 500 series have 32-bit data and address buses, but use a 16-bit I/O bus for their 030-based PDS connectors at 16MHz.
30. PowerBook 520c uses a dual-scan passive matrix color LCD screen.
31. Quadra 630, LC 630, and Performa 630 family uses an IDE controller for internal HD, but supports internal SCSI CD and six external SCSI devices.
32. Quadra 630, LC 630, and Performa 630 family also have a communication, video, and TV slot in addition to its PDS slot.
33. PowerBook 150 uses an IDE controller for internal HD, but supports external SCSI devices.
34. Performa 6110, 6112, 6115, 6117, and 6118 have the CD removed from the end of their product names for abbreviation only.