	IBM 360/370	Intel 8086	Motorola 68000	DEC VAX
Date announced	1964/1970	1978	1980	1977
Instruction size(s) (bits)	16, 32, 48	8, 16, 24, 32, 40, 48	16, 32, 48, 64, 80	8, 16, 24, 32, , 432
Addressing (size, model)	24 bits, flat/ 31 bits, flat	4 + 16 bits, segmented	24 bits, flat	32 bits, flat
Data aligned?	Yes 360/No 370	No	16-bit aligned	No
Data addressing modes	2/3	5	9	=14
Protection	Page	None	Optional	Page
Page size	2 KB & 4 KB	_	0.25 to 32 KB	0.5 KB
1/0	Opcode	Opcode	Memory mapped	Memory mapped
Integer registers (size, model, number)	16 GPR × 32 bits	8 dedicated data × 16 bits	8 data and 8 address × 32 bits	15 GPR × 32 bits
Separate floating-point registers	4 × 64 bits	Optional: 8 × 80 bits	Optional: 8 × 80 bits	0
Floating-point format	IBM (floating hexadecimal)	IEEE 754 single, double, extended	IEEE 754 single, double, extended	DEC

FIGURE E.29 Summary of four 1970s architectures. Unlike the architectures in Figure E.1, there is little agreement between these architectures in any category. (See Section E.3 for more details on the 80x86 and Section E.4 for a description of the VAX.)

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