

## 1. 世界 主要 企業 現況

가 世界の 情報處理 100代 企業

(資料 : DATAMATION)

1988 WORLD RANK	1987 WORLD RANK	COMPANY	1988 TOTAL REVENUE	1988 IS REVENUE	1987 IS REVENUE	IS REV % CHANGE
1	1	IBM	59,681.0	55,002.8	50,614.0	8.7
2	2	Digital Equipment	12,284.7	12,284.7	10,391.3	18.2
3	4	Fujitsu	16,905.5	10,999.1	8,740.0	25.8
4	5	NEC	22,895.1	10,475.7	8,230.5	27.3
5	3	Unisys	9,902.0	9,100.0	8,900.0	2.3
6	6	Hitachi	46,885.1	8,247.6	6,273.7	31.5
7	9	Hewlett Packard	9,831.0	6,300.0	5,000.0	26.0
8	7	Siemens	33,812.1	5,951.0	5,703.0	4.3
9	11	Olivetti	6,445.5	5,427.9	4,637.2	17.0
10	8	NCR	5,989.9	5,324.0	5,087.0	4.7
11	10	Groupe Bull	5,296.7	5,296.7	4,964.8	6.7
12	14	Apple	4,434.1	4,434.1	3,041.2	45.8
13	12	Toshiba	28,759.0	4,226.6	3,441.4	22.8
14	17	Matsushita	40,721.9	3,441.0	2,628.5	30.9
15	20	Canon	8,631.4	3,391.6	2,371.0	43.0
16	15	Control Data	3,628.3	3,254.3	2,975.9	9.4
17	13	Wang	3,074.4	3,074.4	3,045.7	0.9
18	16	Nixdorf	3,044.9	3,044.9	2,821.5	7.9
19	18	NV Philips	28,365.7	2,794.6	2,601.6	7.4
20	19	Xerox	16,441.0	2,650.0	2,415.0	9.7
21	24	AT&T	35,210.0	2,445.0	2,000.0	22.3
22	21	STC	4,193.6	2,425.1	2,123.9	14.2
23	45	Memorex Telex	2,241.8	2,078.5	1,041.1	99.6
24	36	Compaq	2,065.6	2,065.6	1,224.1	68.7
25	32	Nihon Unisys	2,057.7	2,057.7	1,294.6	58.9
26	25	TRW	6,982.1	1,965.0	1,960.0	0.3
27	30	Electronic Data Systems	4,844.1	1,907.6	1,440.5	32.4
28	28	Amdahl	1,801.8	1,801.8	1,505.2	19.7
29	26	Tandy	3,992.3	1,792.4	1,692.4	5.9
30	33	Ricoh	5,370.1	1,727.5	1,275.7	35.4
31	23	Alcatel	13,137.5	1,716.0	2,055.4	(16.5)
32	41	NTT	42,920.3	1,694.0	1,128.5	50.1
33	29	Automatic Data Processing	1,617.0	1,617.0	1,467.0	10.2
34	50	Prime	1,594.0	1,594.0	960.9	65.9
35	37	Seiko Epson	2,724.5	1,487.7	1,198.4	24.1
36	39	Okidata	4,311.8	1,472.1	1,137.3	29.4
37	55	Sun Microsystems	1,461.6	1,461.6	755.9	93.4
38	42	Tandem Computers	1,424.7	1,424.7	1,089.6	30.8
39	46	Zenith	2,685.7	1,356.0	1,040.0	30.4
40	43	Seagate Technology	1,351.0	1,351.0	1,075.7	25.6
41	47	Atlantic Computers	1,350.5	1,341.6	1,028.4	30.5
42	31	Data General	1,330.5	1,330.5	1,303.9	2.0
43	34	McDonnell Douglas	15,072.0	1,289.0	1,237.0	4.2
44	44	Mitsubishi	18,518.9	1,270.7	1,047.7	21.3
45	40	Computer Sciences	1,253.4	1,253.4	1,133.8	10.6
46	35	Inspectorate International	1,688.3	1,230.3	1,225.0	0.4
47	49	Societe Generale	5,214.2	1,222.6	970.1	26.0
48	38	Comdisco	1,356.0	1,212.0	1,153.0	5.1
49	58	Arthur Andersen	2,976.5	1,198.5	748.9	60.0
50	83	Nokia	5,212.4	1,165.1	417.4	179.1

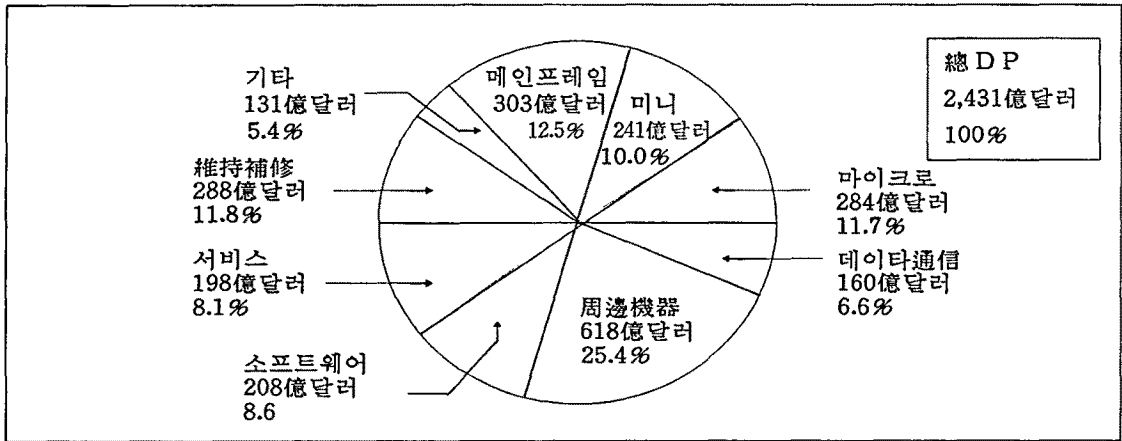
NONDOLLAR CURRENCY			COUNTRY	1988 EMPLS	R & D		NET INCOME	FISCAL YEAR END
1988 IS	1987 IS	% CHANGE			CORP 1988	AS%OF TOTREV		
	p		N. Y.	387,112	5,925.0	9.93	5,806.0	Dec.
			Mass.	124,400	1,447.5	11.78	1,209.1	July
¥1,409,537.0	¥1,263,992.0	11.5	Japan	94,825	1,498.6	8.9	456.5	Mar.
¥1,342,462.0	¥1,190,314.0	12.8	Japan	105,486	2,008.6	8.8	573.8	Mar.
			Pa.	93,000	1,419.5	14.34	680.6	Dec.
¥1,056,933.0	¥907,315.0	16.5	Japan	161,000	2,204.3	4.7	1,060.3	Mar.
			Calif.	87,000	1,019.0	10.37	816.0	Oct.
DM10,450.0	DM10,250.0	2.0	W. Ger.	353,000	3,690.2	10.9	792.1	Sept.
L7,065,400.0	L6,014,300.0	17.5	Italy	57,560	307.3	4.8	345.7	Dec.
			Ohio	60,000	416.0	6.95	439.3	Dec.
Fr31,547.0	Fr29,832.0	5.7	France	45,557	611.3	11.5	50.9	Dec.
			Calif.	10,836	315.2	7.11	419.3	Sept.
¥541,641.0	¥497,700.0	8.8	Japan	129,000	1,841.6	6.4	600.5	Mar.
¥440,968.0	¥380,145.0	16.0	Japan	134,186	2,285.8	5.6	1,471.0	Mar.
¥434,634.0	¥342,895.0	26.8	Japan	40,740	678.9	7.9	289.5	Dec.
			Minn.	33,657	394.3	10.87	1.7	Dec.
			Mass.	31,255	250.3	8.14	50.1	June
DM5,346.8	DM5,071.0	5.4	W. Ger	31,037	300.1	9.9	14.8	Dec.
G5,525.0	G5,270.0	4.8	Neth.	310,300	2,338.4	8.2	534.1	Dec.
			Conn.	100,123	794.0	4.83	388.0	Dec.
			N. Y.	304,200	2,572.0	7.30	(1,669.0)	Dec.
£1,362.9	£1,299.0	4.9	U. K.	33,848	377.6	9.0	264.9	Dec.
G4,109.2	G2,108.9	94.9	Neth.	13,142	44.6	2.0	3.7	Dec.
			Texas	6,000	74.9	3.63	255.2	Dec.
¥263,700.0	¥187,227.0	40.8	Japan	7,616	NA	NA	27.5	Mar.
			Ohio	73,211	1,879.0	26.91	260.6	Dec.
			Texas	50,407	NA	NA	384.1	Dec.
			Calif.	8,300	221.0	12.27	223.3	Dec.
			Texas	37,000	NA	NA	121.5	June
¥221,378.0	¥184,490.0	20.0	Japan	33,000	336.8	6.3	121.2	Mar.
Fr1,450.0	Fr1,780.0	(18.5)	France	127,000	1,005.8	7.7	497.9	Dec.
¥217,081.0	¥163,201.0	33.0	Japan	279,983	1,322.4	3.1	1,322.3	Mar.
			N. J.	22,000	74.6	4.61	178.2	June
			Mass.	12,500	174.0	10.92	19.0	Dec.
¥190,649.0	¥173,317.0	10.0	Japan	19,000	247.9	9.1	NA	Mar.
¥188,651.0	¥164,481.0	14.7	Japan	18,659	277.2	6.4	106.4	Mar.
			Calif.	8,253	191.8	13.12	89.6	June
			Calif.	8,745	179.6	12.61	102.1	Sept.
			Ill.	36,000	100.6	3.75	11.7	Dec.
			Calif.	26,000	56.7	4.20	(5.5)	June.
£754.0	£629.0	19.9	U. K.	1,431	NA	NA	65.8	Dec.
			Mass.	14,810	164.2	12.34	(48.9)	Sept.
			Mo.	121,421	610.0	4.05	350.0	Dec.
¥162,838.0	¥151,519.0	7.5	Japan	75,795	1,011.4	5.5	307.0	Mar.
			Calif.	19,800	NA	NA	49.5	March
SFr1,800.0	SFr1,835.3	(1.9)	Switz.	7,698	NA	NA	90.2	Dec.
Fr7,282.0	Fr5,829.0	24.9	France	1,137	NA	NA	6.9	Dec.
			Ill.	1,503	NA	NA	96.0	Sept.
			Ill.	48,000	300	NA	NA	Aug.
Fmk4,877.0	Fmk1,835.0	165.8	Finland	44,600	249.6	4.8	259.7	Dec.

1988 WORLD RANK	1987 WORLD RANK	COMPANY	1988 TOTAL REVENUE	1988 IS REVENUE	1987 IS REVENUE	IS REV % CHANGE
51	52	C Itoh	118,622.2	1,075.9	829.2	29.7
52	48	National Semiconductor	2,668.8	1,018.0	985.0	3.4
53	64	Cap Gemini Sogeti	976.5	976.5	682.3	43.1
54	54	Commodore	964.7	926.1	785.0	18.0
55	66	Computer Associates	925.3	925.3	648.8	42.7
56	51	Northern Telecom	5,407.5	900.0	900.0	0.0
57	65	Econocom	897.0	897.0	674.3	33.0
58	57	Storage Technology	874.0	874.0	750.0	16.5
59	59	Amstrad	1,108.7	841.8	730.2	15.3
60	67	Intergraph	800.2	800.2	641.1	24.8
61	60	Motorola	8,250.0	790.0	724.9	9.0
62	69	Alps	2,970.5	785.2	632.5	24.1
63	62	Mannesmann Kienzle	940.2	779.0	686.0	13.6
64	61	Cray Research	756.3	756.3	687.3	10.0
65	63	Martin Marietta	5,727.5	743.4	685.7	8.4
66	76	Microsoft	718.6	718.6	456.7	57.4
67	84	Continental Information Systems	776.3	698.4	405.4	72.3
68	56	General Electric	50,089.0	675.0	750.0	(10.0)
69	80	CSK	1,040.9	660.0	428.7	53.9
70	68	Bell Atlantic	10,880.1	657.0	634.9	3.5
71	72	Apollo Computer	653.5	653.5	553.6	18.1
72	73	Lockheed	10,590.0	620.0	553.0	12.1
73	75	Comparex	614.5	614.5	530.8	15.8
74	94	Miniscribe	603.3	603.3	362.5	66.4
75	78	3M	10,000.0	588.0	455.0	29.2
76	71	Texas Instruments	6,295.0	577.0	555.0	4.0
77	74	Racal Electronics	2,572.4	554.1	549.1	0.9
78	81	Finsiel	545.4	545.4	424.1	28.6
79	93	Sony	15,406.0	515.6	365.5	41.1
80	85	Emhart	2,762.5	508.9	404.8	25.8
81	87	Wyse Technology	488.7	488.7	396.2	23.4
82	88	Lotus	468.5	468.5	395.6	18.4
83	104	AST Research	459.0	459.0	289.8	58.4
84	77	Anacom	482.7	455.4	455.7	(0.1)
85	82	Norsk Data	450.2	450.2	422.6	6.5
86	91	American Express	22,934.0	446.9	383.8	16.4
87	96	MAI Basic Four	443.3	443.3	334.2	32.7
88	154	NYNEX	12,660.8	430.0	180.0	138.9
89	79	Harris	2,104.8	425.0	446.0	(4.8)
90	142	Oracle	424.6	424.6	198.0	114.4
91	99	Science Applications	865.4	386.0	309.0	24.9
92	102	Acer Group	529.1	379.4	294.0	29.0
93	89	Shared Medical Systems	378.7	378.7	390.7	(3.1)
94	146	Sema Group	474.9	375.1	197.2	90.2
95	106	SD-Scicon	394.3	366.4	287.0	27.7
96	97	Dataproducts	364.5	364.5	334.2	9.1
97	95	Diebold	450.6	362.8	345.5	5.0
98	118	Atari	452.6	361.8	250.0	44.7
99	105	Micropolis	353.1	353.1	288.3	22.5
100	103	Eastman Kodak	17,034.0	350.0	290.0	20.7

NONDOLLAR CURRENCY			COUNTRY	1988 EMPLS	R&D		NET INCOME	FISCAL YEAR END
1988 IS	1987 IS	% CHANGE			CORP 1988	AS%OF TOTREV		
¥137,8800	¥119,9240	15 0	Japan	10,400	NA	NA	101.4	Mar.
			Calif.	39,000	302.2	11.33	(18.1)	May
Fr5,816.0	Fr4,100.0	41.9	France	12,000	48.9	5.0	67.5	Dec
			Pa.	3,380	19.4	2.01	69.6	June
			N. Y.	6,400	110.0	11.89	142.4	Mar.
		0 0	Canada	50,136	710.6	13.1	165.6	Dec.
G1,773.4	G1,366.0	29.8	Neth.	1,600	NA	NA	NA	Dec
			Colo.	8,900	67.5	7.72	44.2	Dec.
£473.1	£446.6	5.9	U K.	1,644	1.2	0.1	165.1	June
			Ala.	7,300	89.2	11.15	88.0	Dec
			Ill.	102,000	665.0	8.06	445.0	Dec.
¥100,626.0	¥91,478.0	10.0	Japan	22,800	70.2	2.4	42.1	Mar.
DM1,368.0	DM1,233.0	10.9	W Ger.	10,315	NA	NA	NA	Dec
			Minn.	5,237	117.8	15.58	156.6	Dec.
			Md.	67,500	194.9	3.40	358.9	Dec
			Wash.	3,500	87.3	12.15	151.4	June
			N. Y.	1,100	0.0	0.00	(10.8)	Feb.
			Conn.	298,000	1,155.0	2.31	3,386.0	Dec
¥84,574.0	¥62,000.0	36.4	Japan	5,559	19.5	1.87	31.2	Sept.
			Pa.	81,000	NA	NA	1,316.8	Dec
			Mass.	4,446	76.9	11.77	2.1	Dec
			Calif.	86,800	536.0	5.06	624.0	Dec
DM1,079.0	DM954.0	13.1	W Ger.	1,127	NA	NA	26.2	Dec.
			Colo.	6,648	18.7	3.10	25.9	Dec
			Minn.	82,405	650.0	6.50	1,154.0	Dec
			Texas	75,000	494.0	7.85	366.3	Dec.
¥311.4	¥335.8	(7.3)	U. K.	32,000	18.5	7.0	279.5	Mar.
L710,000.0	L550,000.0	29.1	Italy	4,912	28.5	5.2	16.1	Dec.
¥66,074.0	¥52,859.0	25.0	Japan	57,000	1,368.6	8.9	540.5	Oct.
			Conn.	32,991	41.0	1.48	126.6	Dec
			Calif.	3,200	32.2	6.59	(6.9)	Mar.
			Mass.	2,563	83.8	17.89	58.9	Dec.
			Calif.	2,025	17.4	3.79	4.3	June
			Ind.	9,000	NA	NA	32.8	Sept.
NKr2,934.0	NKr2,847.0	3.1	Norway	4,100	44.8	9.9	(41.0)	Dec
			N Y	100,000	NA	NA	1,038.0	Dec
			Calif.	4,285	24.5	5.53	24.3	Sept.
			Ohio	4,560	18.4	4.08	35.8	Dec
			Calif.	3,800	27.2	6.01	(84.8)	Dec
			Calif.	3,120	28.4	8.04	(19.4)	Dec
			N Y.	145,300	1,147.0	6.73	1,397.0	Dec.
TAD10,864.2	TAD9,336.3	16.4	Taiwan	5,072	26.5	5.0	27.5	Dec.
			Calif.	3,600	24.3	6.67	(11.3)	Mar
£210.8	£120.6	74.8	U K.	6,400	17.8	3.7	13.0	Dec
£205.9	£175.5	17.3	U. K.	4,456	NA	NA	14.6	Dec
			N Y.	97,400	200.0	1.58	1,315.0	Dec.
			Fla.	31,700	122.0	5.80	69.6	June
			Calif.	2,985	37.7	8.88	62.1	May
			Calif.	9,876	NA	NA	25.7	Feb
			Pa.	3,860	37.5	9.90	29.4	Dec.

나 分野別 上位企業 現況

(1) 100大企業의 市場區分



(2) 메인프레임 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		성장률(%)	시장점유율
			1988년	1987년		
1	1	IBM	12,138.8	11,193.0	8.45	40.1
2	3	Fujitsu Ltd.	4,184.9	3,318.2	26.12	13.8
3	4	NEC Corp.	4,033.1	3,082.0	30.86	13.3
4	6	Hitachi Ltd.	2,507.3	1,850.4	35.50	8.3
5	28	Amdahl Corp.	1,225.2	926.2	32.28	4.0
6	5	Unisys Corp.	1,175.0	1,322.0**	(11.12)	3.9
7	11	Groupe Bull	901.0	844.0**	6.75	3.0
8	8	Siemens AG	683.4	695.5	(1.74)	2.3
9	22	STC PLC	658.4	596.8	10.32	2.2
10	64	Cray Research Inc.	632.9	588.3	7.58	2.1
11	16	Control Data Corp.	465.0	510.0	(8.82)	1.5
12	25	Nihon Unisys	384.8	226.9	69.59	1.3
13	51	National Semiconductor	372.0	326.0	2.76	1.2
14	73	Comparex	239.7	133.0	80.23	0.8
15	10	NCR	218.3	200.3	8.99	0.7

註) 시장점유율은 상위 100개사 메인프레임 매출고 대 기업별 점유율

\*\*표시는 재정립된 금액임

(3) 미니컴퓨터 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		성장률(%)	시 장 점유율(%)
			1988년	1987년		
1	1	IBM	4,400.0	4,000.0**	10.00	18.2
2	2	Digital Equipment	3,735.6	3,248.4	15.00	15.5
3	7	Hewlett-Packard	1,500.0	1,221.0	22.85	6.2
4	37	Sun Microsystems	1,096.2	566.9**	93.37	4.5
5	13	Toshiba	1,092.1	919.6	18.76	4.5
6	5	Unisys	1,080.0	1,125.0**	(4.00)	4.5
7	3	Fujitsu	991.2	804.3	23.24	4.1
8	17	Wang	912.1	909.3	0.31	3.8
9	25	Nihon Unisys	658.5	400.1	64.58	2.7
10	34	Prime	626.7	387.0	61.94	2.6
11	9	Ohvetti	614.3	603.9	1.72	2.5
12	38	Tandem Computers	557.0	472.8	17.81	2.3
13	44	Mitsubishi	490.5	403.3	21.62	2.0
14	18	Nixdorf Computer	484.1	466.6	3.75	2.0
15	11	Groupe Bull	477.0	446.8**	6.76	2.0

註) 시장점유율은 상위 100개사 미니컴퓨터 매출고 대 기업별 점유율

(4) 마이크로 컴퓨터 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		성장률(%)	시 장 점유율(%)
			1988년	1987년		
1	1	IBM	7,150.0	6,500.0**	10.00	25.5
2	12	Apple	2,950.0	2,069.0	42.58	10.5
3	24	Compaq	2,065.6	1,224.0	68.76	7.4
4	9	Ohvetti	1,427.5	1,176.0	21.39	5.1
5	29	Tandy	1,232.2	1,132.2	8.83	4.4
6	39	Zenith	1,220.4	936.0**	30.38	4.4
7	4	NEC	1,204.7	933.2	29.09	4.3
8	13	Toshiba	1,083.4	800.0	35.43	3.9
9	5	Unisys	1,050.0	732.0**	43.44	3.7
10	59	Amstrad	784.0	685.3**	14.40	2.8
11	7	Hewlett-Packard	670.0	499.0	34.27	2.4
12	21	AT&T	630.0	540.0	16.67	2.2
13	54	Commodore	601.1	514.3	16.88	2.1
14	3	Fujitsu	593.3	463.3	28.49	2.1
15	14	Matsushita	585.0	436.8	33.93	2.1

註) 시장점유율은 상위 100개사 마이크로컴퓨터 총수입 대 기업별 점유율

## (5) 周邊機器 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		성장률(%)	시 장 점유율(%)
			1988년	1987년		
1	1	IBM	10,700.0	9,661.0**	10.75	17.6
2	6	Hitachi	3,917.6	3,036.2	29.03	6.5
3	2	Digital Equipment	3,166.2	2,764.7	14.52	5.2
4	4	NEC	2,828.4	2,270.1	24.59	4.7
5	3	Fujitsu	2,728.5	2,164.0	26.09	4.5
6	7	Hewlett-Packard	2,250.0	1,735.0	29.68	3.7
7	10	NCR	1,872.0	1,808.4	3.52	3.1
8	20	Xerox	1,725.0	1,560.0	10.58	2.8
9	14	Matsushita	1,582.9	1,185.1	33.57	2.6
10	8	Siemens	1,566.1	1,502.3	4.25	2.6
11	15	Canon	1,382.1	878.0	57.41	2.3
12	40	Seagate Technology	1,351.0	1,075.7	25.59	2.2
13	12	Apple	1,350.0	900.0	60.00	2.2
14	23	Memorex Telex	1,339.1	681.6	96.46	2.2
15	11	Groupe Bull	1,325.0	1,241.2**	6.75	2.2

註) 시장점유율은 상위 100개사의 주변기기 매출액 대 기업별 점유율

## (6) 소프트웨어 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		성장률(%)	시 장 점유율(%)
			1988년	1987년		
1	1	IBM	7,927.0	6,836.0	15.96	38.5
2	4	NEC	890.4	676.0	31.72	4.3
3	5	Unisys	875.0	875.0**	0.00	4.2
4	2	Digital	794.6	691.1	14.98	3.9
5	55	Computer Associates	705.4	497.6	41.76	3.4
6	3	Fujitsu	676.1	515.9	31.05	3.3
7	8	Siemens	626.4	550.8	13.73	3.0
8	66	Microsoft	610.8	397.3	53.74	3.0
9	6	Hitachi	602.1	448.8	34.16	2.9
10	11	Groupe Bull	583.0	546.1**	6.76	2.8
11	7	Hewlett-Packard	500.0	415.0	20.48	2.4
12	82	Lotus	438.5	380.6**	15.21	2.1
13	91	Oracle	424.6	198.0	114.44	2.1
14	18	Nixdorf	418.6	405.8	3.15	2.0
15	9	Olivetti	414.4	374.9	19.11	2.0

註) 시장점유율은 상위 100개사의 S/W매출액 대 기업별 점유율

(7) 데이터통신 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		증가율(%)	시 장 점유율(%)
			1988년	1987년		
1	1	IBM	1,600.0	1,507.0	6.17	10.1
2	8	Siemens	1,338.3	1,402.1	(4.55)	8.4
3	21	AT&T	1,250.0	1,010.0	23.76	7.9
4	15	Canon	1,132.3	742.9	52.42	7.1
5	4	NEC	963.8	842.1	14.45	6.1
6	14	Matsushita	929.1	680.2	36.59	5.9
7	56	Northern Telecom	900.0	865.0	4.05	5.7
8	30	Ricoh	850.3	590.9	43.90	5.4
9	3	Fujitsu	816.7	674.4	21.10	5.2
10	13	Toshiba	762.4	615.4	23.89	4.8
11	31	Alcatel	721.9	1,039.3**	(30.54)	4.6
12	61	Motorola	565.0	528.0	7.01	3.6
13	77	Racal Electronics	491.8	488.7	0.63	3.1
14	19	NV Philips	460.3	518.3	(11.19)	2.9
15	7	Hewlett-Packard	400.0	330.0	21.12	2.5

註) 시장점유율은 상위 100개사의 데이터통신 매출액 대 기업별 점유율

(8) 서비스部門 TOP 15個社

순 위	총매출 순 위	기 업 명	매 출 액(백 만 불)		증가율(%)	시 장 점유율(%)
			1988년	1987년		
1	27	Electronic Data Systems	1,907.6	1,440.5	32.43	9.7
2	26	TRW	1,805.0	1,780.0	1.40	9.1
3	33	Automatic Data Processing	1,617.0	1,467.0	10.22	8.2
4	45	Computer Sciences	1,253.4	1,133.8	10.55	6.3
5	49	Arthur Andersen	1,158.5	705.9	64.12	5.9
6	16	Control Data	1,114.2	896.4	24.30	5.6
7	53	Cap Gemini	976.5	682.3	43.12	4.9
8	1	IBM	935.0	850.0	10.00	4.7
9	31	NTT	847.0	565.6	49.75	4.3
10	5	Unisys	825.0	800.0	3.13	4.2
11	43	McDonnell Douglas	791.0	825.4	(4.17)	4.0
12	65	Martin Marietta	743.4	685.7	8.41	3.8
13	80	Emhart	508.9	404.8	25.72	2.6
14	68	General Electric	495.0	450.0	10.00	2.5
15	86	American Express	446.9	383.0	16.68	2.3

註) 시장점유율은 상위 100개사의 서비스부문 매출액 대 기업별 점유율



## (9) 賣出伸張率 順位 TOP 15個社

순 위	총매출 순 위	회 사	매 출 액(백 만)		증가율(%)
			1988년	1987년	
1	50	Nokia*	Fmk4,877.0	Fmk1,835.0	165.78
2	88	Nynex*	\$ 430.0	\$ 180.0	138.89
3	90	Oracle*	\$ 424.6	\$ 198.0	114.44
4	37	Sun Microsystems	\$ 1,461.6	\$ 755.9	93.36
5	94	Sema*	£ 210.8	£ 120.6	74.79
6	67	Continental Info.*	\$ 698.4	\$ 405.4	72.27
7	24	Compaq	\$ 2,065.6	\$ 1,224.1	68.74
8	74	Miniscribe	\$ 603.3	\$ 362.5	66.43
9	34	Prime Computer*	\$ 1,594.0	\$ 960.9	65.89
10	49	Arthur Andersen	\$ 1,198.5	\$ 748.9	60.03
11	83	AST Research	\$ 459.0	\$ 289.8	58.39
12	66	Microsoft	\$ 718.6	\$ 456.7	57.35
13	12	Apple	\$ 4,434.1	\$ 3,041.2	45.80
14	98	Atari	\$ 361.8	\$ 250.0	44.72
15	55	Computer Assoc.*	\$ 925.3	\$ 648.8	42.62

註) \*는 합병·흡수기업임

## (10) 賣出下落率 TOP 9個社

순 위	총매출 순 위	회 사	매 출 액(백 만)		증가율(%)
			1988년	1987년	
1	31	Alcatel	ECU1,450.0	ECU1,730.0	△18.54
2	109	Tandon	\$ 309.3	\$ 374.0	△17.30
3	68	General Electric	\$ 675.0	\$ 750.0	△10.0
4	118	Gould	\$ 275.0	\$ 299.3	△8.12
5	77	Racal Electronics	£ 311.4	£ 335.8	△7.27
6	89	Harris	\$ 425.0	\$ 446.0	△4.71
7	93	Shared Medical	\$ 378.7	\$ 390.7	△3.07
8	46	Inspectorate Int'l	SFr1,800.0	SFr1,835.3	△1.92
9	84	Anacomp	\$ 455.4	\$ 455.7	△0.07

(11) 營業利益率 TOP 15個社

순 위	총매출 순 위	회 사	영 업 이 익 률 (%)	
			1988년	1987년
1	66	Microsoft	21.1	20.4
2	64	Cray Research	20.7	21.4
3	55	Computer Associates	15.4	9.3
4	59	Amstrad	14.9	17.9
5	90	Oracle	14.6	15.0
6	82	Lotus	12.6	18.2
7	28	Amdahl	12.4	9.7
8	24	Compaq	12.4	11.1
9	33	Automatic Data Processing	11.0	10.2
10	60	Intergraph	11.0	10.9
11	2	Digital Equipment	9.8	12.4
12	1	IBM	9.7	9.5
13	12	Apple	9.5	9.2
14	7	Hewlett-Packard	8.3	8.0
15	97	Diebold	7.9	8.1

註) 총매출액 중 정보산업매출이 75% 이상인 기업

(12) 資産利益率 TOP 15個社

순 위	총매출 순 위	회 사	자 산 이 익 률 (%)	
			1988년	1987년
1	41	Atlantic Computers	31.3	52.7
2	59	Amstrad	30.4	46.6
3	66	Microsoft	25.0	32.3
4	91	Science Applications	24.0	8.4
5	90	Oracle	18.5	16.0
6	12	Apple	18.4	17.3
7	24	Compaq	16.1	15.1
8	64	Cray Research	15.8	16.3
9	82	Lotus	14.0	22.7
10	55	Computer Associates	12.3	7.7
11	2	Digital Equipment	11.8	13.6
12	78	Finsiel	11.7	15.6
13	28	Amdahl	11.6	9.7
14	27	Electronic Data Systems	11.2	10.9
15	33	Automatic Data Processing	11.2	9.4

(13) 赤字 TOP 10個社

순 위	총매출 순 위	회 사	적 자(백 만 불)	
			1988년	1987년
1	21	AT&T	△1,669.0	+2,044
2	98	Atari	△84.8	N/A
3	42	Data General	△48.9	△111.3
4	85	Norsk Data	△41.6	+13.2
5	99	Micropolis	△19.4	N/A
6	52	National Semiconductor	△18.1	+6.6
7	96	Dataproducts	△11.3	△11.3
8	67	Continental Info. Sys.	△10.8	+15.1
9	81	Wyse Technology	△6.9	+25.5
10	40	Seagate Tachnology	△5.5	+115.3

(14) 従業員 1人當 賣出額 TOP 15個社

순 위	총매출 순 위	회 사	매 출 액 (천불)	정보처리매출액 (백만불)	1988 종업원수(명)
1	41	Atlantic Computers	937.5	1,341.6	1,431
2	57	Econocom Int'l	607.0	971.2	1,600
3	73	Comparex	545.3	614.5	1,127
4	12	Apple	409.2	4,434.1	10,836
5	24	Compaq	344.3	2,065.6	6,000
6	54	Commodore	274.0	926.1	3,380
7	25	Nihon Unisys	270.2	2,057.7	7,616
8	83	AST Research	226.7	459.0	2,025
9	28	Amdahl	217.1	1,801.8	8,300
10	66	Microsoft	205.3	718.6	3,500
11	82	Lotus	182.8	468.5	2,563
12	37	Sun Microsystems	177.1	1,461.6	8,253
13	38	Tandem Computers	162.9	1,424.7	8,745
14	81	Wyse Technology	152.7	488.7	3,200
15	71	Apollo Compuster	147.0	653.5	4,446

註) 총매출액 중 정보산업관련 매출액이 95% 이상인 기업