

SECTOR AVERAGE RATING & OVERVIEW

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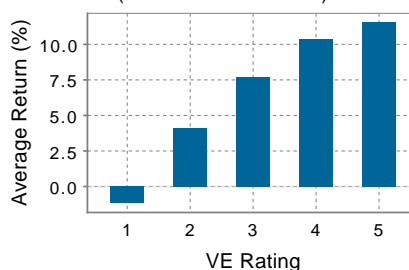
For a complete listing of ValuEngine ratings, fair market valuations, one year target prices for all stocks covered, please see the [ValuEngine Comprehensive Rating Report](#).

Average ValuEngine Rating



3 out of 5

VE Rating and Average Annual Return
(Jan 2002 - Jul 2020)



The ValuEngine Rating is an overall assessment of a stock's attractiveness. It combines the following five factors: valuation, risk-return tradeoff, momentum, market capitalization, and forecasted future returns. Only two percent of the stock universe receives the highest 5-engine rating, while the lowest rating is a single engine. The chart on the left shows historically how stocks in the various ratings have performed on average. Average ValuEngine Rating for a sector is the average of the ValuEngine Ratings for all stocks in the sector.

SECTOR OVERVIEW

	# of Companies	Market Cap (bil.)	Earnings (mil.)	Revenue (bil.)
Latest	846	28,998	521,980	3,872
Percentage of Market	10.55%	37.98%	20.79%	12.65%

AVERAGE FORECAST RETURN

	One Month	Three Months	Six Months	One Year	Two Years	Three Years
Average Forecast	0.18%	0.82%	1.63%	2.13%	6.59%	8.73%

RECENT STOCK PERFORMANCE

	One Month	Three Months	Six Months	Last Year
Average Realized Return	7.85%	28.75%	13.96%	28.46%

VALUATION & RANKINGS

Avg Valuation	16.83% overvalued	Avg Valuation Rank	39
Avg Sharpe Ratio	0.1385	Avg Sharpe Ratio Rank	60
Avg Market Cap (bil.)	12.40	Avg Size Rank	58
Avg 12 Month Return	28.46%	Avg Momentum Rank	62
Avg 5 Yr Annual Return	4.76%	Avg 5 Yr Annual Rtn Rank	62
Avg Expected EPS Growth	41.63%	Avg EPS Growth Rank	52
Avg P/E Ratio	35.1006	Avg P/E Rank	46
Avg Market/Book	10.2814	Avg Market/Book Rank	36
Avg Price/Sales	5.6135	Avg Price/Sales Rank	45
Avg Volatility	53.91%	Avg Volatility Rank	44

Just as important as the percentages shown for our ten predictive variables for each stock is the way they are ranked against the 8000 plus stocks in our database. This is sometimes confusing to newcomers to ValuEngine.com. Each of these quantitative measurements is ranked on a scale of 1 to 100. Generally the higher the ranking, the more positive the influence each measurement has on the overall attractiveness of the stock. In other words a high rank is always better. For example:

- Valuation rank 70: 30% of stocks are more undervalued
- Momentum rank 70: 30% of stocks have higher momentum
- Sharpe Ratio rank 70: 30% of stocks have a higher Sharpe Ratio
- Volatility rank 70: 30% of stocks have less volatility
- Size rank 70: 30% of companies have higher market capitalization
- P/E rank 70: 30% of stocks have lower P/E ratios

Sector Report for COMPUTER AND TECHNOLOGY

SECTOR COMPARISON (1)

FORECAST COMPARISON

	One Month	Three Months	Six Months	One Year	Two Years	Three Years
Business Services	0.20%	0.52%	0.68%	2.41%	0.56%	-1.18%
Transportation	-0.02%	-0.13%	-0.52%	-0.21%	-3.65%	-6.41%
Utilities	-0.24%	-0.87%	-1.85%	-2.87%	-6.08%	-6.79%
Finance	-0.29%	-0.68%	-1.41%	-3.50%	-3.83%	-3.76%
Oils-Energy	-0.04%	-0.97%	-2.81%	-0.44%	-13.84%	-20.88%
Aerospace	-0.04%	-0.39%	-1.21%	-0.52%	-6.03%	-9.20%
Computer and Technology	0.18%	0.82%	1.63%	2.13%	6.59%	8.73%
Multi-Sector Conglomerates	-0.10%	-0.42%	-1.12%	-1.20%	-5.15%	-7.32%
Construction	-0.19%	-0.07%	0.12%	-2.29%	3.35%	6.95%
Industrial Products	-0.04%	0.12%	0.27%	-0.50%	2.30%	4.00%
Basic Materials	0.06%	0.48%	1.04%	0.70%	5.03%	7.36%
Auto-Tires-Trucks	0.12%	0.80%	1.73%	1.41%	6.64%	8.10%
Medical	0.42%	1.08%	1.56%	5.05%	3.65%	2.85%
Retail-Wholesale	0.12%	0.59%	1.10%	1.42%	3.57%	4.30%
Consumer Discretionary	0.14%	0.40%	0.50%	1.68%	-0.04%	-1.87%
Consumer Staples	0.04%	0.05%	-0.25%	0.47%	-1.46%	-2.04%

VALUATION COMPARISON

	Valuation	Valuation Rank	Sharpe Ratio	Sharpe Ratio Rank	Market Cap (bil)	Size Rank
Business Services	0.62%	48	-0.0212	51	8.4549	54
Transportation	6.77%	49	-0.2787	37	6.5737	57
Utilities	-10.50%	57	0.1112	61	14.3358	77
Finance	-10.20%	59	0.0122	55	5.5965	49
Oils-Energy	-18.86%	71	-0.4150	29	6.7327	50
Aerospace	6.59%	52	-0.0057	53	13.8307	63
Computer and Technology	16.83%	39	0.1385	60	12.3966	58
Multi-Sector Conglomerates	20.28%	47	-0.2045	41	18.1616	73
Construction	9.53%	39	0.0323	58	5.2751	62
Industrial Products	5.28%	44	0.0621	57	7.0383	60
Basic Materials	8.35%	43	0.0209	55	6.4628	60
Auto-Tires-Trucks	29.80%	35	-0.1359	45	14.1292	68
Medical	4.74%	53	-0.1431	46	6.1091	48
Retail-Wholesale	20.70%	42	-0.1293	46	15.9986	61
Consumer Discretionary	15.67%	44	-0.1168	45	8.0592	56
Consumer Staples	5.19%	49	-0.0203	53	17.0785	64

Sector Report for COMPUTER AND TECHNOLOGY

SECTOR COMPARISON (2)

MOMENTUM COMPARISON

	12 Mon Return	Momentum Rank	5 Yr Avg Return	5 Yr Return Rank	EPS Growth	Growth Rank
Business Services	4.02%	47	-5.87%	50	35.78%	51
Transportation	-6.79%	42	-13.68%	38	22.74%	46
Utilities	-2.51%	44	0.07%	60	25.30%	45
Finance	-4.17%	46	-2.33%	55	16.01%	38
Oils-Energy	-20.58%	30	-25.74%	28	10.99%	39
Aerospace	-15.22%	36	-3.38%	54	8.84%	42
Computer and Technology	28.46%	62	4.76%	62	41.63%	52
Multi-Sector Conglomerates	-11.55%	39	-11.72%	44	33.75%	51
Construction	18.55%	61	-0.15%	59	28.94%	48
Industrial Products	16.32%	57	1.02%	58	22.27%	45
Basic Materials	24.11%	60	1.11%	57	58.27%	58
Auto-Tires-Trucks	19.56%	59	-7.02%	46	106.62%	67
Medical	31.83%	59	-8.82%	46	31.65%	52
Retail-Wholesale	21.96%	55	-9.51%	47	68.52%	61
Consumer Discretionary	5.40%	45	-9.60%	46	75.59%	59
Consumer Staples	8.44%	49	-2.64%	54	46.30%	52

RATIO COMPARISON

	P/E Ratio	P/E Ratio Rank	M/B Ratio	M/B Ratio Rank	P/S Ratio	P/S Ratio Rank
Business Services	28.6026	47	9.2710	36	4.8487	53
Transportation	17.9173	55	2.8953	67	1.5691	69
Utilities	20.9033	66	3.3211	53	2.3779	53
Finance	15.1648	75	2.1635	69	4.0529	46
Oils-Energy	18.5395	51	3.0873	70	2.3320	69
Aerospace	22.6549	61	7.1192	41	2.8174	60
Computer and Technology	35.1006	46	10.2814	36	5.6135	45
Multi-Sector Conglomerates	19.0215	61	3.2331	57	1.3667	67
Construction	23.3482	63	5.2256	47	1.7295	66
Industrial Products	23.7055	57	6.9147	41	2.0623	58
Basic Materials	26.4583	51	4.0695	54	3.9148	56
Auto-Tires-Trucks	25.8707	50	7.2220	48	1.2408	70
Medical	33.2865	27	8.5451	35	14.8928	26
Retail-Wholesale	31.2973	48	7.3034	44	1.7769	68
Consumer Discretionary	27.5078	50	5.9543	47	2.6124	62
Consumer Staples	25.0907	54	10.6353	38	2.3821	56

Sector Report for COMPUTER AND TECHNOLOGY

BEST PERFORMANCE STOCKS (1)

One Month Return

Ticker	Company Name	Realized Return	Forecast Return	Rating	Market Cap
BRRZY	TOTAL BRAIN LTD	500.00%	3.25%	3	0.03
KODK	EASTMAN KODAK	250.46%	-2.22%	3	0.33
VJET	VOXELJET AG-ADR	228.04%	10.44%	4	0.02
LITB	LIGHTINTHEBOX-A	128.93%	3.43%	3	0.31
PBI	PITNEY BOWES IN	116.48%	-4.67%	3	1.02
RNET	RIGNET INC	115.93%	10.48%	4	0.08
BMTM	BRIGHT MOUNTAIN	111.90%	3.83%	3	0.40
MJCO	MAJESCO	109.55%	3.55%	3	0.69
IAIC	INFO ANALYSIS	106.12%	2.82%	3	0.00
APPS	DIGITAL TURBINE	102.74%	4.16%	3	2.29
INTZ	INTRUSION INC	100.49%	1.85%	3	0.17
ARLO	ARLO TECH INC	98.94%	7.34%	4	0.44
EMAN	EMAGIN CORP	98.50%	2.50%	3	0.10
SOHU	SOHU.COM LTD	90.44%	1.23%	3	0.80
SOGO	SOGOU INC-ADR	86.55%	2.79%	3	3.37
TRUE	TRUECAR INC	76.88%	0.58%	3	0.55
SCIXF	SUNY CELLULAR	70.69%	2.84%	3	0.22
DTSS	DATASEA INC	68.24%	-0.42%	3	0.06
MAXR	MAXAR TECH INC	65.56%	2.65%	3	1.63
GRVY	GRAVITY CO-ADR	62.88%	2.77%	3	0.64

Three Month Return

Ticker	Company Name	Realized Return	Forecast Return	Rating	Market Cap
BRRZY	TOTAL BRAIN LTD	500.00%	3.25%	3	0.03
QUBT	QUANTUM COMPUTG	362.37%	6.82%	4	0.03
SCIL	SCIENTIFIC LRNG	355.70%	2.82%	3	0.01
APPS	DIGITAL TURBINE	353.59%	4.16%	3	2.29
RNET	RIGNET INC	322.13%	10.48%	4	0.08
CNTFY	CHINA TECHFAITH	291.67%	2.84%	3	0.00
LITB	LIGHTINTHEBOX-A	251.84%	3.43%	3	0.31
CMBM	CAMBIUM NETWRKS	238.18%	0.10%	3	0.40
LEAF	LEAF GROUP LTD	223.94%	8.10%	4	0.16
KODK	EASTMAN KODAK	213.11%	-2.22%	3	0.33
WSTM	HRSOFT INC	200.00%	4.87%	3	
MICT	MICT INC	196.61%	-3.57%	3	0.04
OBLG	OBLONG INC	196.00%	3.30%	3	0.02
INTZ	INTRUSION INC	186.35%	1.85%	3	0.17
EMAN	EMAGIN CORP	182.76%	2.50%	3	0.10
CDJM	CARNEGIE DEVELP	175.00%	2.76%	3	
NEXCF	NEXTECH AR SOL	173.14%	2.40%	3	0.30
SOFT	SOFTECH INC	166.67%	2.82%	3	0.00
IAIC	INFO ANALYSIS	164.00%	2.82%	3	0.00
BMTM	BRIGHT MOUNTAIN	163.31%	3.83%	3	0.40

Sector Report for COMPUTER AND TECHNOLOGY

BEST PERFORMANCE STOCKS (2)

Six Month Return

Ticker	Company Name	Realized Return	Forecast Return	Rating	Market Cap
TAOP	TAOPING INC	442.07%	-0.10%	3	0.02
IZEA	IZEA WORLDWIDE	417.48%	6.43%	4	0.06
FKWL	FRANKLIN WIRELS	375.84%	2.65%	3	0.14
NEON	NEONODE INC	296.54%	3.26%	3	0.08
PRXM	PROXIM WIRELESS	293.76%	-1.27%	3	0.00
EAXR	EALIXIR INC	292.50%	2.74%	3	0.00
APPS	DIGITAL TURBINE	289.47%	4.16%	3	2.29
KOPN	KOPIN CORP	288.87%	6.83%	4	0.13
EMAN	EMAGIN CORP	279.37%	2.50%	3	0.10
ANY	SPHERE 3D CORP	258.37%	8.08%	4	0.02
NEXCF	NEXTECH AR SOL	256.72%	2.40%	3	0.30
FSLY	FASTLY INC	245.44%	3.28%	3	8.04
MICT	MICT INC	236.54%	-3.57%	3	0.04
VJET	VOXELJET AG-ADR	218.55%	10.44%	4	0.02
GRVY	GRAVITY CO-ADR	218.36%	2.77%	3	0.64
AEYE	AUDIOEYE INC	198.09%	4.70%	3	0.13
QUMU	QUMU CORP	189.66%	9.22%	4	0.08
LITB	LIGHTINTHEBOX-A	180.25%	3.43%	3	0.31
RMBL	RUMBLEON INC	176.15%	10.00%	4	0.06
ZM	ZOOM VIDEO CMTS	176.12%	2.98%	3	75.08

One Year Return

Ticker	Company Name	Realized Return	Forecast Return	Rating	Market Cap
BRRZY	TOTAL BRAIN LTD	500.00%	3.25%	3	0.03
MICT	MICT INC	400.00%	-3.57%	3	0.04
FKWL	FRANKLIN WIRELS	392.31%	2.65%	3	0.14
FSLY	FASTLY INC	380.54%	3.28%	3	8.04
LTRPB	LIBERTY TRIP-B	346.76%	2.74%	3	3.52
MHH	MASTECH DIGITAL	338.90%	-2.99%	3	0.27
LPTH	LIGHTPATH TECH	332.23%	4.43%	3	0.08
MAXR	MAXAR TECH INC	326.74%	2.65%	3	1.63
EAXR	EALIXIR INC	318.67%	2.74%	3	0.00
OBLG	OBLONG INC	318.26%	3.30%	3	0.02
APPS	DIGITAL TURBINE	297.24%	4.16%	3	2.29
SOFO	SONIC FOUNDRY	283.81%	3.30%	3	0.03
PRXM	PROXIM WIRELESS	279.70%	-1.27%	3	0.00
KODK	EASTMAN KODAK	272.68%	-2.22%	3	0.33
CALX	CALIX INC	268.39%	4.40%	3	1.24
BLDP	BALLARD PWR SYS	262.24%	5.28%	3	3.80
IZEA	IZEA WORLDWIDE	261.68%	6.43%	4	0.06
VNET	21VIANET GP-ADR	246.04%	5.09%	3	2.67
NEON	NEONODE INC	244.36%	3.26%	3	0.08
CPAH	COUNTERPATH CP	242.62%	2.91%	3	0.03

Sector Report for COMPUTER AND TECHNOLOGY

TOP AND BOTTOM STOCKS (1)

Valuation - Top Undervalued Stocks				Valuation - Top Overvalued Stocks			
Ticker	Company Name	Valuation	Ranking	Ticker	Company Name	Valuation	Ranking
INTEQ	INTELSAT SA	-75.00%	99	SWIR	SIERRA WIRELESS	300.00%	1
MG	MISTRAS GROUP	-75.00%	99	WIX	WIX.COM LTD	300.00%	1
QUIK	QUICKLOGIC CORP	-75.00%	98	SABR	SABRE CORP	300.00%	1
BNFT	BENEFITFOCUS	-69.10%	96	GRUB	GRUBHUB INC	290.48%	2
SNCR	SYNCHRONOSS TEC	-69.08%	96	SHOP	SHOPIFY INC	268.86%	2
IRIX	IRIDEX CORP	-68.95%	96	RNG	RINGCENTRAL INC	201.72%	2
CSLT	CASTLIGHT HLTH	-67.59%	95	BLDP	BALLARD PWR SYS	193.15%	3
GTT	GTT COMMUNICATN	-66.40%	95	ACMR	ACM RESEARCH	186.48%	3
TIGO	MILLICOM INTL	-62.37%	94	SPLK	SPLUNK INC	182.47%	3
TRVG	TRIVAGO NV ADS	-60.15%	93	LPSN	LIVEPERSON INC	170.97%	3
TRUE	TRUECAR INC	-57.27%	93	SRI	STONERIDGE INC	150.16%	4
PLUS	EPLUS INC	-54.09%	91	TWLO	TWILIO INC-A	145.00%	4
SREV	SERVICESOURCE	-53.81%	91	VJET	VOXELJET AG-ADR	139.03%	4
WB	WEIBO CORP ADS	-53.51%	91	APPS	DIGITAL TURBINE	132.60%	4
NVT	NVENT ELECTRIC	-51.23%	91	VRNS	VARONIS SYSTEMS	125.40%	4
NJDCY	NIDEC CORP-ADR	-49.74%	90	SQ	SQUARE INC	121.10%	4
YRD	YIRENDAI LTD	-49.07%	90	SMICY	SEMICON MFG-ADR	120.10%	4
SOHU	SOHU.COM LTD	-49.02%	90	DL	CHINA DISTANCE	114.32%	5
VSAT	VIASAT INC	-46.04%	88	FIVN	FIVE9 INC	112.95%	5
DXC	DXC TECHNOLOGY	-45.15%	88	COUP	COUPA SOFTWARE	111.63%	5

One Year Forecast Return - Top Stocks				One Year Forecast Return - Bottom Stocks			
Ticker	Company Name	Forecast Return	Ranking	Ticker	Company Name	Forecast Return	Ranking
PIXY	SHIFTPIXY INC	16.75%	100	INTT	INTEST CORP	-20.77%	1
SABR	SABRE CORP	16.33%	100	FXCNY	FIH MOBILE LTD	-16.78%	1
TOUR	TUNIU CORP-ADR	15.69%	100	CEL	CELLCOM ISRAEL	-16.38%	1
SONM	SONIM TECHNOLGS	15.30%	100	MTSL	MER TELEMGT SOL	-16.19%	1
INLX	INTELLINETICS	14.97%	100	PHI	PLDT INC	-16.01%	1
GEOS	GEOSPACE TEC CP	14.51%	100	CTL	CENTURYLINK INC	-15.80%	2
UXIN	UXIN LTD-ADR	14.39%	100	UIS	UNISYS	-15.38%	2
QTT	QUTOUTIAO INC	14.30%	100	SKM	SK TELECOM CO	-15.28%	2
TACT	TRANSACT TECH	14.15%	99	MBT	MOBILE TELE-ADR	-14.51%	2
STG	SUNLANDS TECH	13.97%	99	YRD	YIRENDAI LTD	-14.49%	2
RNWK	REALNETWORKS	13.62%	99	DXC	DXC TECHNOLOGY	-14.22%	3
EB	EVENTBRITE INC	13.45%	99	BELFB	BEL FUSE INC-B	-14.19%	3
MCHX	MARCHEX INC	13.39%	99	QFIN	360 FINANCE-ADR	-13.95%	3
MOSY	MOSYS INC	13.02%	99	SMCI	SUPER MICRO COM	-13.15%	4
CYRN	CYREN LTD	12.78%	98	TKC	TURKCELL IL-ADR	-13.03%	4
SCON	SUPERCOND TECH	12.75%	98	INTC	INTEL CORP	-12.87%	4
GOGO	GOGO INC	12.66%	98	MEI	METHODE ELECT-A	-12.83%	4
LYFT	LYFT INC-A	12.31%	98	MG	MISTRAS GROUP	-12.69%	4
GSUM	GRIDSUM HOLDING	12.26%	98	KT	KT CORP	-12.62%	4
PI	IMPINJ INC	12.15%	98	HPQ	HP INC	-12.50%	5

Sector Report for COMPUTER AND TECHNOLOGY

TOP AND BOTTOM STOCKS (2)

Market Capital - Big Cap Stocks				Market Capital - Small Cap Stocks			
Ticker	Company Name	Market Cap (mil.)	Ranking	Ticker	Company Name	Market Cap (mil.)	Ranking
FB	FACEBOOK INC-A	743,997.88	100	ALLN	ALLIN CORP	0.01	1
TCEHY	TENCENT HOLDING	631,501.12	100	DPSI	DECISIONPOINT	0.04	1
TSM	TAIWAN SEMI-ADR	415,871.78	100	SFET	SAFE-T GRP-ADR	0.10	1
NVDA	NVIDIA CORP	303,490.22	100	DLYT	DAIS CORP	0.11	1
VZ	VERIZON COMM	243,234.56	100	CHYI	CHYKINGYOUNG ID	0.23	1
PYPL	PAYPAL HOLDINGS	230,307.06	100	SOFT	SOFTECH INC	0.36	1
ADBE	ADOBE SYSTEMS	216,609.38	100	PRXM	PROXIM WIRELESS	0.48	2
T	AT&T INC	214,415.83	100	OSAT	ORBSAT CORP	0.60	2
INTC	INTEL CORP	208,099.30	100	YYY	AMP-HI INCM	0.76	2
SAP	SAP SE	191,548.92	100	ZTNO	ZOOM TECH INC	0.96	2
CSCO	CISCO SYSTEMS	177,716.59	100	MTLK	METALINK LTD	1.08	2
CRM	SALESFORCE.COM	177,262.75	100	MFCO	MICROWVE FILTER	1.16	3
ORCL	ORACLE CORP	165,678.03	100	ELST	ELECTRONIC SYS	1.26	3
TMUS	T-MOBILE US INC	162,611.75	100	ABILF	ABILITY INC	1.50	3
ASML	ASML HOLDING NV	158,902.28	100	EAXR	EALIXIR INC	1.95	4
CHL	CHINA MOBLE-ADR	155,081.44	100	TAPM	TAPINATOR INC	2.31	4
AVGO	BROADCOM INC	132,851.41	100	CNTFY	CHINA TECHFAITH	2.49	4
TXN	TEXAS INSTRS	126,909.23	100	LMSC	LIVE MICROSYSTEM	3.46	5
QCOM	QUALCOMM INC	126,569.33	100	TNLX	TRANS-LUX	3.81	5
SFTBY	SOFTBANK GRP CP	123,506.39	99	ELCO	ELCOM INTL INC	3.92	5

Momentum - Top Stocks				Momentum - Bottom Stocks			
Ticker	Company Name	Momentum	Ranking	Ticker	Company Name	Momentum	Ranking
MICT	MICT INC	400.00%	100	SFET	SAFE-T GRP-ADR	-93.37%	1
FKWL	FRANKLIN WIRELS	392.31%	100	GEENQ	GLOBAL EAGL ENT	-93.16%	1
FSLY	FASTLY INC	380.54%	99	WISA	SUMMIT WIRELESS	-89.82%	1
LTRPB	LIBERTY TRIP-B	346.76%	99	SONM	SONIM TECHNOLGS	-87.34%	1
MHH	MASTECH DIGITAL	338.90%	99	MYSZ	MY SIZE INC	-84.05%	1
LPTH	LIGHTPATH TECH	332.23%	99	CHYI	CHYKINGYOUNG ID	-81.82%	1
MAXR	MAXAR TECH INC	326.74%	99	MFGP	MICRO FOCUS INT	-78.98%	2
EAXR	EALIXIR INC	318.67%	99	PIXY	SHIFTPIXY INC	-76.12%	2
OBLG	OBLONG INC	318.26%	99	ALLN	ALLIN CORP	-76.00%	2
APPS	DIGITAL TURBINE	297.24%	99	MG	MISTRAS GROUP	-71.84%	2
SOFO	SONIC FOUNDRY	283.81%	99	GTEC	GREENLAND TECH	-71.40%	2
PRXM	PROXIM WIRELESS	279.70%	99	LTRPA	LIBERTY TRIP-A	-70.58%	3
KODK	EASTMAN KODAK	272.68%	99	JFIN	JIAYIN GROUP	-68.52%	3
CALX	CALIX INC	268.39%	99	SABR	SABRE CORP	-66.06%	4
BLDP	BALLARD PWR SYS	262.24%	99	JG	AURORA MOBILE	-64.43%	4
IZEA	IZEA WORLDWIDE	261.68%	99	TOUR	TUNIU CORP-ADR	-63.58%	4
VNET	21VIANET GP-ADR	246.04%	98	RMBL	RUMBLEON INC	-62.21%	5
NEON	NEONODE INC	244.36%	98	YRD	YIRENDAL LTD	-60.35%	5
CPAH	COUNTERPATH CP	242.62%	98	SPRS	SURGE COMPONENT	-60.00%	5
VJET	VOXELJET AG-ADR	236.02%	98	INLX	INTELLINETICS	-59.69%	5

Sector Report for COMPUTER AND TECHNOLOGY

TOP AND BOTTOM STOCKS (3)

Expected EPS Growth - Top Stocks				Expected EPS Growth - Bottom Stocks			
Ticker	Company Name	EPS Growth	Ranking	Ticker	Company Name	EPS Growth	Ranking
CTK	COOTEK CAYMAN	965.45%	99	QADA	QAD INC-A	-550.00%	1
FORR	FORRESTER RESH	788.89%	99	AUOTY	AU OPTRONCS-ADR	-423.81%	1
ASYS	AMTEC SYSTEMS	728.12%	98	BL	BLACKLINE INC	-297.44%	2
APELY	ALPS ELECTRIC	675.81%	98	RENN	RENREN INC-ADR	-284.62%	2
VSAT	VIASAT INC	647.06%	98	BB	BLACKBERRY LTD	-192.31%	2
RMBS	RAMBUS INC	637.50%	98	TRUE	TRUECAR INC	-179.00%	3
RICOY	RICOH LTD ADR	608.70%	98	BAND	BANDWITH INC-A	-163.27%	3
OIIM	O2MICRO INT LTD	600.00%	98	QADB	QAD INC	-148.70%	3
LINX	LINX SA-ADR	571.43%	98	TLND	TALEND SA-ADR	-132.80%	3
HIMX	HIMAX TECH-ADR	562.50%	98	GLIBA	GCI LIBERTY INC	-122.29%	4
AMSSY	AMS AG	501.63%	97	MCHX	MARCHEX INC	-122.03%	4
THKLY	T H K CO LTD	481.65%	97	HUBS	HUBSPOT INC	-121.16%	4
SOGO	SOGO INC-ADR	467.86%	97	CEVA	CEVA INC	-119.30%	4
VRT	VERTIV HOLDINGS	435.94%	97	SCWX	SECUREWORKS CP	-100.00%	5
JBL	JABIL INC	421.33%	97	EGAN	EGAIN CORP	-100.00%	5
NTWK	NETSOL TECH INC	413.37%	96	BCOV	BRIGHTCOVE	-100.00%	5
TEUM	PARETEUM CORP	364.58%	96	MIXT	MIX TELEMATICS	-95.42%	5
MTSI	MA-COM TECH SOL	360.34%	96	IVAC	INTEVAC INC	-95.08%	5
CALX	CALIX INC	353.85%	96	RKUNY	RAKUTEN	-91.47%	5
OSAGF	OSRAM LICHT AG	348.77%	96	PI	IMPINJ INC	-84.56%	5

E/P Ratio - Top Stocks				E/P Ratio - Bottom Stocks			
Ticker	Company Name	E/P Ratio	Ranking	Ticker	Company Name	E/P Ratio	Ranking
MFGP	MICRO FOCUS INT	0.4005	99	SITO	SITO MOBILE LTD	-5.2937	1
MTSL	MER TELEMGT SOL	0.3007	98	SCON	SUPERCOND TECH	-4.8298	1
CMCM	CHEETAH MBL-ADR	0.2769	98	PIXY	SHIFTPIXY INC	-3.5212	1
YRD	YIRENDAI LTD	0.2762	98	PXHI	PHONEX HOLDINGS	-3.3611	1
FXCNV	FIH MOBILE LTD	0.2743	98	STG	SUNLANDS TECH	-2.7397	2
ZAGG	ZAGG INC	0.2367	97	TOUR	TUNIU CORP-ADR	-1.8136	2
MTNOY	MTN GROUP LTD	0.2202	97	SONM	SONIM TECHNOLGS	-1.3300	3
INTT	INTEST CORP	0.1891	96	GSUM	GRIDSUM HOLDING	-1.3234	3
DXC	DXC TECHNOLOGY	0.1838	95	ANY	SPHERE 3D CORP	-0.8968	4
SKM	SK TELECOM CO	0.1751	95	BKYI	BIO-KEY INTL	-0.8065	4
WSTL	WESTELL TECH-A	0.1681	95	YTRA	YATRA ONLINE	-0.7609	5
ROSY	ROSTELECOM ADR	0.1571	94	INLX	INTELLINETICS	-0.7500	5
TKC	TURKCELL IL-ADR	0.1534	94	ARCW	ARC GROUP WORLD	-0.7460	5
JFIN	JIAYIN GROUP	0.1517	94	GOGO	GOGO INC	-0.6267	6
GVP	GSE SYSTEMS INC	0.1474	94	RNWK	REALNETWORKS	-0.6039	6
HPE	HEWLETT PKD ENT	0.1469	94	LPL	LG DISPLAY-ADR	-0.5577	6
QFIN	360 FINANCE-ADR	0.1463	94	UXIN	UXIN LTD-ADR	-0.5096	7
EUTLF	EUTELSAT COMMUN	0.1416	93	GEOS	GEOSPACE TEC CP	-0.4799	7
UIS	UNISYS	0.1407	93	QUIK	QUICKLOGIC CORP	-0.4090	8
BELFB	BEL FUSE INC-B	0.1401	93	QTT	QUTOUTIAO INC	-0.3958	8

TOP AND BOTTOM STOCKS (4)

Sharpe Ratio - Top Stocks				Sharpe Ratio - Bottom Stocks			
Ticker	Company Name	Sharpe Ratio	Ranking	Ticker	Company Name	Sharpe Ratio	Ranking
CARR	CARRIER GLOBAL	8.1715	100	SFET	SAFE-T GRP-ADR	-3.1900	1
KC	KINGSOFT CLOUD	3.9980	100	WISA	SUMMIT WIRELESS	-2.1173	1
NET	CLOUDFLARE INC	2.2692	100	PIXY	SHIFTPIXY INC	-1.9163	1
SITM	SITIME CORP	2.2089	100	SONM	SONIM TECHNOLGS	-1.4295	2
CCC	CLARIVATE ANLYT	1.9725	100	LYFT	LYFT INC-A	-1.3013	2
PING	PING IDENTITY	1.8227	100	ABILF	ABILITY INC	-1.2525	2
DDOG	DATADOG INC	1.8198	100	CAN	CANAAN INC	-1.2331	2
ZM	ZOOM VIDEO CMTS	1.6984	99	UXIN	UXIN LTD-ADR	-1.2236	2
ADBE	ADOBE SYSTEMS	1.6603	99	GTEC	GREENLAND TECH	-1.1838	3
COUP	COUPA SOFTWARE	1.5961	99	BLIN	BRIDGELINE DGTL	-1.1757	3
MSFT	MICROSOFT CORP	1.5813	99	TOUR	TUNIU CORP-ADR	-1.1342	3
FIVN	FIVE9 INC	1.5810	99	MFGP	MICRO FOCUS INT	-1.0723	4
MSCI	MSCI INC-A	1.5698	99	OSAT	ORBSAT CORP	-1.0439	4
RWWI	RAND WORLDWIDE	1.5591	99	ARLO	ARLO TECH INC	-1.0412	4
BAND	BANDWITH INC-A	1.5312	99	GTYH	GTY TECHNOLOGY	-1.0384	4
RNG	RINGCENTRAL INC	1.4924	99	MYSZ	MY SIZE INC	-1.0218	4
CRNC	CERENCE INC	1.4725	99	EB	EVENTBRITE INC	-0.9868	4
OKTA	OKTA INC	1.4538	99	SCON	SUPERCOND TECH	-0.9825	5
NVDA	NVIDIA CORP	1.4497	99	ANY	SPHERE 3D CORP	-0.9767	5
SHOP	SHOPIFY INC	1.4426	99	PBTS	POWERBRIDGE TEC	-0.9743	5

Volatility - Less Volatile Stocks				Volatility - Top Volatile Stocks			
Ticker	Company Name	Volatility	Ranking	Ticker	Company Name	Volatility	Ranking
HTCXF	HTC CORP	0.00%	99	ZTNO	ZOOM TECH INC	442.07%	1
BGAOY	PROXIMUS GP ADS	0.00%	100	SSNLF	SAMSUNG ELE LTD	305.33%	1
SWDAF	SOFTWARE AG	0.00%	100	FMHS	FARMHOUSE INC	283.86%	1
HXGBY	HEXAGON AB	0.00%	100	MIELF	MITSUBISHI ELEC	257.92%	1
SLLF	SILTRONIC AG	0.00%	100	SCIXF	SUNY CELLULAR	230.55%	2
RNWEF	REC SILICON ASA	0.00%	100	PHUN	PHUNWARE INC	215.72%	2
PLSQF	PLUS500 LTD	0.00%	100	EAXR	EALIXIR INC	215.68%	2
DLVHF	DELIVERY HERO	0.00%	100	BRRZY	TOTAL BRAIN LTD	207.90%	3
RNLX	RENALYTIX AI	0.00%	100	WTRH	WAITR HOLDINGS	192.36%	3
BLCT	BLUECITY HLDGS	0.00%	100	WIMI	WIMI HOLGRM CLD	181.05%	4
NCNO	NCINO INC	0.00%	100	CHYI	CHYKINGYOUNG ID	178.33%	4
TGRVF	TIAN GE INTERAC	6.72%	92	QUBT	QUANTUM COMPUTG	177.49%	4
EUFX	PRO-SH EURO	6.79%	92	CDJM	CARNEGIE DEVELP	174.44%	4
SPHY	SPDR-POR HYB	8.39%	91	PXHI	PHONEX HOLDINGS	173.82%	4
PFXF	VANECK-PS EX-F	10.99%	89	SOFT	SOFTECH INC	171.09%	4
DWPP	FT-DW PEPL PRT	15.10%	86	ALLN	ALLIN CORP	167.09%	5
FUJIY	FUJIFILM HLDGS	15.72%	85	HPTO	HOPTO INC	165.38%	5
YYY	AMP-HI INCM	15.88%	84	DLYT	DAIS CORP	165.38%	5
DOX	AMDOCS LTD	16.14%	84	SONM	SONIM TECHNOLGS	162.53%	5
RELX	RELX PLC	16.27%	84	DPSI	DECISIONPOINT	161.79%	5

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ANNUAL FINANCIALS (ALL ITEMS IN MILLIONS)

BALANCE SHEET (# of company)	2020 (104)	2019 (755)	2018 (763)	2017 (746)	2016 (721)	2015 (679)
Cash	198,723.06	702,359	625,211.88	659,849.31	523,414.03	512,401.66
Marketable Securities	158,345.27	699,673.44	721,867.5	749,014.44	646,821.88	534,274.69
Receivables	198,513.09	716,868.25	669,186.75	591,341.44	527,476.62	497,456.91
Inventory	42,567.7	215,815.31	212,519.09	190,682.36	162,239.97	153,418
Raw Materials	10,704.71	52,630.18	48,833.63	41,819.01	34,336.76	29,126.7
Work in Progress	3,386.94	48,685.84	44,999.38	42,104.99	35,987.04	32,390.38
Finished Goods	7,021.57	65,628.12	67,048.23	65,867.77	54,986.38	51,525.14
Notes Receivable	1,783.61	63,487.05	67,906.81	69,802.68	54,790.67	34,238.52
Other Current Assets	147,420.86	230,214.38	221,157.78	195,003.88	178,069.81	185,263.16
Total Current Assets	748,309.75	2,628,413	2,517,855	2,455,514	2,092,819	1,917,057
Property, Plant & Equipment	129,821.37	2,788,106	2,908,590	2,693,615	2,450,764	2,284,024
Accumulated Depreciation	71,378.45	1,651,324	1,735,372	1,619,588	1,476,213	1,355,500
Net Property, Plant & Equipment	217,875.08	1,454,218	1,364,514	1,278,248	1,162,687	1,109,351
Investment & Advances	150,274.47	508,169.72	545,401.31	476,389.5	405,920.62	380,609.78
Other non-current Assets	17,876.29	53,624.83	55,576.45	51,626.44	50,563.16	66,247.66
Deferred Charges	49,713.81	132,899.81	123,599.3	108,035.27	109,243.91	98,980.09
Intangibles	428,227.34	1,998,561	1,882,166	1,710,484	1,480,014	1,367,704
Deposits & other assets	94,114.02	475,539.22	276,426.53	218,287.42	181,291.62	164,382.5
TOTAL ASSETS	1,726,281	7,284,438	6,767,508	6,299,358	5,483,326	5,104,716
Notes Payable	18,764.44	51,931.9	55,353.79	62,475.6	53,669.16	56,885.01
Accounts Payable	121,004.76	553,555.94	557,730.31	522,735.03	456,784.41	453,759.56
Current Portion of Long-term Debt	71,314.44	202,712.39	193,111.69	199,244.16	178,624.61	141,887.41
Current Portion of Capital Leases	5,791.97	9,668.13	1,176.5	476.2	441.13	299.43
Accrued Expenses	39,577.69	296,393.22	256,739.58	249,619.56	211,507.7	206,925.59
Income Taxes Payable	9,029.6	36,226.97	29,651.16	29,369.84	26,467.4	23,124.64
Other Current Liabilities	245,052.98	560,214.88	505,246	425,456.28	359,338.5	314,852.88
Total Current Liabilities	511,205.66	1,712,751	1,599,011	1,489,388	1,286,843	1,197,739
Mortgages	--	--	4.19	1.53	0.88	--
Deferred Charges (taxes/income)	38,121.2	233,699.61	224,944.95	210,308.86	228,696.02	207,805.81
Convertible Debt	5,770.32	27,524.98	17,929.49	13,599.66	13,781.76	11,141.47
Long Term Debt	413,102.56	1,656,555	1,503,510	1,451,069	1,201,168	1,076,523
Non-Current Capital Leases	11,896.58	30,204.67	11,049.56	1,964.74	1,791.87	1,636.35
Other Long-Term Liabilities	142,850.33	547,392.81	500,343.91	435,139.59	374,324.75	350,744.94
Minority Interest (liabilities)	633.15	7,366.73	8,617.33	4,066.68	2,993.93	1,781.47
Total Liabilities	1,128,242	4,221,226	3,865,409	3,605,548	3,109,605	2,847,323
Preferred Stock	110.35	4,081.84	6,366.2	10,399	6,563.73	4,886.88
Common Stock, Net	170,710.31	550,036.06	572,924.44	564,861.69	513,788.94	490,429.97
Capital Surplus	311,818.75	1,408,876	1,286,286	1,137,960	1,079,816	960,946.19
Retained Earnings	93,084.5	1,417,676	1,327,954	1,223,305	1,086,685	1,024,530
Treasury Stock	36,503.17	465,741.38	432,861.09	388,568.81	378,416.12	346,118.47
Other Equity	58,896.02	142,336.59	134,741.44	116,323.1	58,108.01	110,693.5
Total Shareholders' Equity	598,039.94	3,063,234	2,907,084	2,693,751	2,373,721	2,257,311
Total Liabilities & Shareholders Equity	1,726,281	7,284,462	6,772,496	6,299,360	5,483,240	5,104,716

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ANNUAL FINANCIALS (ALL ITEMS IN MILLIONS)

INCOME STATEMENT (# of company)	2020 (109)	2019 (758)	2018 (768)	2017 (749)	2016 (730)	2015 (685)
Net Sales or Revenues	868,900.25	4,141,613	4,025,265	3,646,951	3,342,749	3,210,191
Cost of Goods Sold	468,035.66	2,085,078	1,968,713	1,776,381	1,639,712	1,612,216
Gross Profit	371,997.34	1,854,659	1,777,470	1,607,490	1,438,819	1,410,998
Research & Development Expense	53,476.16	280,989.25	248,282.77	216,548.28	191,169.23	175,059.77
Selling, General & Admin. Expense	203,737.25	818,060.19	792,926.44	745,803.75	667,231.44	653,443.94
Income Before Depr., Depl., Amort.	114,781.38	755,557.44	736,257.19	645,132.19	580,389.12	582,479.19
Depreciation, Depletion, Amort.	11,807.21	161,886.8	159,000	149,397.98	138,709.77	139,319.31
Non-Operating Income	10,662.16	30,691.26	46,395.37	24,795.6	17,173.3	25,605.92
Interest Expense	14,154.71	71,680.12	64,221.53	61,095.31	51,153.69	46,244.72
Pretax Income	99,413.77	552,777.38	559,500.5	459,469.5	407,934.28	422,490.62
Provision for Income Taxes	19,247.73	99,027.02	117,682.67	95,370.83	103,113.13	98,710.07
Minority Interest	3,764.68	5,325.82	6,022.38	2,845.28	3,873.15	4,675.11
Investment Gains (Losses)	16.39	32.95	-111.67	218.93	-21.38	323.56
Other Income	--	-0.31	0.03	0.45	--	33.31
Income Before Extraordinaries & Disc Oper.	81,848.02	472,347.44	487,725.62	406,176.31	331,026.72	341,287.72
Extraordinary Items & Discontinued Oper.	-520.23	-1,011.51	-2,339.55	4,407.43	4,699.25	4,327.36
Net Income	77,586.96	466,013.38	479,404.22	407,997.12	331,863.03	340,939.16
Average Shares used for Diluted EPS	55,368.33	233,168.5	232,661.56	226,951.5	224,682.55	200,071.2
Average Shares used for Basic EPS	54,945.82	230,986.92	230,334.86	225,224.7	222,774.16	197,979.56
Income Before Non-Recurring Items	88,343.62	538,735.56	571,189.81	475,001.22	390,847.81	380,397
Income From Non-Recurring Items	-10,404.81	-73,696.27	-94,756.78	-66,425.86	-56,488.01	-32,054.66
EPS - Basic, net	15.41	443	-132.71	43.97	-576.09	-2,655.55
EPS - Diluted, net	15.72	458.14	-268.73	61.07	-581.06	-2,647.2
EPS - Diluted, before non-recurring Items	87.58	745.9	200.11	446.84	-25.73	-1,167.26

CASH FLOW STATEMENT (# of company)	2020 (104)	2019 (755)	2018 (762)	2017 (746)	2016 (720)	2015 (679)
Net Income (Cash Flow)	85,171.2	470,411.09	454,602.59	371,784.88	321,245.12	340,345.41
Depreciation, Depletion, Amortization-CF	99,780.8	400,948.62	358,348.38	318,466.44	296,642.31	293,219.75
Net Increase(decrease) in Assets/Liabilities	-17,363.33	-56,891.19	12,840.23	8,840.05	-16,984.02	-14,568.33
Cash from(used in) Discontinued Oper.	-4.21	-98.46	1,974.44	-843.3	-3,613.8	-1,891.14
Other Adjustments - Net	16,595.61	81,378.15	15,211.08	33,191.02	65,508.89	29,224.32
Net Cash from (used by) Operating Act.	184,181.75	895,767.25	842,933.25	749,222.25	664,233.81	646,762.75
Increase/Decrease in Prop, Plant, & Equ.	-66,668.93	-361,890.19	-345,827.16	-301,712.94	-292,931.28	-274,075.34
Acquisition/Disposition of Subsidiaries	-42,809.06	-157,145.44	-142,806.34	-170,883.72	-91,001.23	-101,652.24
Increase (decrease) in Investments	32,494.56	105,179.9	18,875.84	-113,630.62	-120,755.02	-147,120.52
Other Cash inflow from Investment Act.	-2,119.01	-13,481.75	-17,246.33	-31,525.16	-21,351.79	-17,035.64
Net Cash from (used by) Investment Act.	-79,028.97	-427,344.5	-487,564.75	-617,750.12	-526,050.19	-539,886.06
Issuance (purchase) of Equity Shares	-57,265.77	-255,093.11	-237,847.06	-76,210.91	-104,045.83	-120,943.95
Issuance (repayment) of Debt Securities	-46,404.35	74,659.21	24,664.11	240,167.47	121,479.33	143,008.5
Increase (decrease) in Bank & Other	73,838.32	-17,721.52	-11,120.76	-28,062.04	8,969.46	16,283.16
Payment of Dividends & Other Cash Dist.	-35,622.23	-176,941.3	-151,224.55	-120,427.46	-129,483.02	-120,845.52
Other Cash from (used by) Financing Act.	-3,723.09	-6,983.2	-13,843.48	-37,713.82	-33,747.41	-2,118.33
Net Cash from (used by) Financing Act.	-69,211.63	-382,088.88	-389,338.75	-22,257.41	-136,828.88	-84,618.06
Net Change in Cash & Cash Equivalents	31,540.21	85,182.42	-35,046.23	109,096.51	-2,046.07	21,076.99

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QUARTERLY FINANCIALS (ALL ITEMS IN MILLIONS)

BALANCE SHEET (# of company)	2020Q2 (113)	2020Q1 (701)	2019Q4 (742)	2019Q3 (715)	2019Q2 (738)	2019Q1 (734)
Cash	252,448.75	675,225.25	677,342.12	643,227.19	667,868.25	609,910.5
Marketable Securities	198,832.94	624,203.56	680,010.62	624,844.44	680,727.38	626,244.31
Receivables	204,337.11	606,687.56	665,347.62	621,348.62	637,144.44	603,130.88
Inventory	73,498.98	187,631.91	211,778.09	199,618.86	218,005.19	210,923.55
Raw Materials	15,671.75	42,505.48	47,407.56	37,718.72	40,252.05	43,529.75
Work in Progress	14,374.44	36,783.18	44,640.53	37,633.87	39,631.59	37,663.01
Finished Goods	15,008.55	42,485.46	52,325.97	45,238.03	49,304.67	58,697.86
Notes Receivable	17,708.89	55,966.57	63,415.96	55,616.43	64,056.14	61,765.76
Other Current Assets	87,505.72	311,872.75	246,918.89	204,350.72	212,082.55	197,206.19
Total Current Assets	834,331.25	2,462,547	2,544,814	2,349,006	2,479,884	2,309,205
Property, Plant & Equipment	422,250.22	1,681,490	2,391,193	1,621,572	1,967,082	1,744,957
Accumulated Depreciation	264,351.69	953,118.69	1,433,786	936,957.06	1,150,930	1,005,549
Net Property, Plant & Equipment	465,313.72	1,205,459	1,420,062	1,201,058	1,366,933	1,160,919
Investment & Advances	31,807.44	465,572.12	528,935.06	481,641.25	514,019.69	505,892.25
Other non-current Assets	28,557.09	56,754.49	48,141.46	53,326.04	48,407.05	49,753.8
Deferred Charges	51,282.73	129,205.79	102,865.3	115,895.9	96,594.38	121,116.86
Intangibles	1,016,342	1,843,265	1,967,212	1,849,068	1,876,698	1,821,007
Deposits & other assets	198,242	487,782.12	519,479.25	470,734.56	485,896.84	427,922.38
TOTAL ASSETS	2,639,500	6,700,211	7,191,044	6,553,938	6,904,207	6,403,862
Notes Payable	27,386.98	49,715.96	59,939.23	39,045.56	56,658.01	34,034.04
Accounts Payable	180,342.17	428,639.5	535,916.44	453,678.06	481,166.47	427,463.09
Current Portion of Long-term Debt	61,092.11	229,936.48	200,480.44	192,992.59	215,884.14	191,385.8
Current Portion of Capital Leases	613.12	10,263.11	16,512.32	11,195.84	16,053.26	4,245.23
Accrued Expenses	73,818.63	242,686.66	286,286.75	230,949.64	255,688.34	218,371.78
Income Taxes Payable	10,922.15	26,997.4	27,079.77	25,499.6	27,149.71	28,963.29
Other Current Liabilities	203,020.06	600,741.69	554,701.62	508,087.41	540,641.88	496,654.81
Total Current Liabilities	560,514	1,590,631	1,672,348	1,476,488	1,600,975	1,427,706
Mortgages	--	1.39	--	4.38	4.32	4.26
Deferred Charges (taxes/income)	145,899.7	214,600.31	236,367.34	219,658.14	222,594.73	216,940.3
Convertible Debt	9,921.96	33,570.67	29,334.52	25,894.15	23,099	20,387.57
Long Term Debt	780,298.94	1,615,261	1,618,810	1,603,553	1,586,753	1,506,219
Non-Current Capital Leases	1,361.84	28,539.1	45,976.29	31,115.49	47,543.56	23,445.22
Other Long-Term Liabilities	268,615.19	548,074.56	560,371.19	538,804.94	536,078.69	573,259.5
Minority Interest (liabilities)	585.87	6,945.02	6,946.84	5,552.71	5,694.07	9,181.7
Total Liabilities	1,772,587	4,050,864	4,179,281	3,907,294	4,028,796	3,780,932
Preferred Stock	0.11	2,695.03	3,072.67	3,122.96	4,271.87	5,627.14
Common Stock, Net	291,242.22	446,685.81	551,322.88	456,747.75	569,027.75	452,202
Capital Surplus	383,487.78	1,344,890	1,242,881	1,306,338	1,139,302	1,235,863
Retained Earnings	490,528.44	1,186,791	1,557,017	1,190,135	1,337,713	1,198,553
Treasury Stock	322,816.06	474,385.69	455,386.53	450,261.41	436,270.78	442,762
Other Equity	-13,284.57	64,036.42	105,227.78	79,284.56	173,300.94	79,990.77
Total Shareholders' Equity	866,912.5	2,649,348	3,011,784	2,646,636	2,875,408	2,622,930
Total Liabilities & Shareholders Equity	2,639,500	6,700,211	7,191,068	6,553,938	6,904,207	6,403,862

Sector Report for COMPUTER AND TECHNOLOGY

QUARTERLY FINANCIALS (ALL ITEMS IN MILLIONS)

INCOME STATEMENT (# of company)	2020Q2 (128)	2020Q1 (709)	2019Q4 (716)	2019Q3 (724)	2019Q2 (721)	2019Q1 (728)
Net Sales or Revenues	341,269.41	852,893.94	1,022,655	944,971.81	919,075.94	903,683.31
Cost of Goods Sold	151,390.59	430,175.38	507,412.88	463,741.56	461,104.72	446,189.84
Gross Profit	167,174.23	396,988.34	432,263.97	415,684.16	406,129.5	376,119.06
Research & Development Expense	28,893.49	73,958.87	74,033.86	70,778.61	71,940.41	67,078.99
Selling, General & Admin. Expense	66,377.62	186,815.84	180,354.05	189,241.89	176,801.95	172,568.38
Income Before Depr., Depl., Amort.	71,903.15	136,190.69	177,825.78	155,663.59	157,387.08	136,471.48
Depreciation, Depletion, Amort.	18,601.88	32,115.86	24,527.81	26,909.83	25,020.92	25,909.64
Non-Operating Income	84.61	-7,036.94	7,892.61	1,216.11	22,758.21	6,787.17
Interest Expense	6,698.45	13,593.95	15,528.21	17,146.07	15,865.38	16,066.7
Pretax Income	48,592.4	83,470.38	145,697.28	112,783.57	139,271.89	101,315.41
Provision for Income Taxes	9,606.9	16,071.87	16,852.72	13,791.27	28,387.7	20,355.28
Minority Interest	555.97	31.93	1,092.93	2,249.04	1,418.69	985.24
Investment Gains (Losses)	24.35	-109	-55.24	11.52	36.87	67.46
Other Income	--	--	0.43	0.21	-0.12	-0.83
Income Before Extraordinaries & Disc Oper.	42,192.8	68,334.91	133,989.62	113,658.7	114,162.66	87,723.26
Extraordinary Items & Discontinued Oper.	-40.48	640.44	-14.41	281.41	24.35	-102.84
Net Income	42,152.31	69,100.38	133,996.48	113,860.67	114,144.48	87,599.02
Average Shares used for Diluted EPS	82,679.07	196,527.83	209,367.88	206,612.56	206,711.03	208,038.75
Average Shares used for Basic EPS	82,213.51	195,206.45	207,290.36	204,719.95	205,050.5	206,339.3
Income Before Non-Recurring Items	54,289.37	103,655.62	147,809.34	125,583.31	122,097.74	108,560.82
Income From Non-Recurring Items	-12,096.58	-23,627.33	-13,431.05	-12,782.32	-8,710.77	-21,700.17
EPS - Basic, net	23.79	11.35	147.4	116.95	118.33	-48.6
EPS - Diluted, net	23.14	6.59	139.98	113.28	110.14	-52.07
EPS - Diluted, before non-recurring Items	42.69	145.74	208.43	190.83	133.32	13.25

CASH FLOW STATEMENT (# of company)	2020Q2 (109)	2020Q1 (699)	2019Q4 (735)	2019Q3 (712)	2019Q2 (725)	2019Q1 (732)
Net Income (Cash Flow)	108,370.59	164,042.55	368,124	267,328.66	236,630.73	179,528.73
Depreciation, Depletion, Amortization-CF	75,284.15	166,708.55	346,258.25	223,435.23	162,755.47	145,493.03
Net Increase(decrease) in Assets/Liabilities	-13,103.72	-28,856.4	-51,615.54	-31,830.79	-36,139.95	-31,754.76
Cash from(used in) Discontinued Oper.	3.71	1,301.68	19.35	254.74	152.05	-47.83
Other Adjustments - Net	26,770.83	37,378.88	59,748.97	57,578.9	29,467.84	15,633.11
Net Cash from (used by) Operating Act.	197,325.56	341,577.09	722,554.88	519,613.72	401,314.97	314,215.41
Increase/Decrease in Prop, Plant, & Equ.	-57,865.95	-125,924.63	-312,165.22	-202,612.66	-151,424.97	-123,901.95
Acquisition/Disposition of Subsidiaries	-17,793.04	-68,453.51	-119,596.37	-97,618.91	-49,409.37	-83,047.38
Increase (decrease) in Investments	19,847.76	45,413.16	-17,464.61	76,000.05	86,555.17	74,747.19
Other Cash inflow from Investment Act.	-3,561.1	-5,038.33	-9,294.56	-279.62	-6,185.37	-11,657.45
Net Cash from (used by) Investment Act.	-59,373.41	-154,474.55	-458,471.81	-227,350.39	-127,910.36	-148,348.59
Issuance (purchase) of Equity Shares	-61,614.52	-126,493.57	-122,061.48	-164,932.5	-173,186.61	-150,352.38
Issuance (repayment) of Debt Securities	54,232.25	-11,273.43	79,854.36	53,325.63	57,531.27	56,340.76
Increase (decrease) in Bank & Other	1,219.76	87,925.68	-16,571.87	-494.77	517.52	3,129.38
Payment of Dividends & Other Cash Dist.	-50,453.01	-65,061.02	-125,772.07	-96,530.25	-85,023.88	-75,964.8
Other Cash from (used by) Financing Act.	-9,821.95	-22,298.9	-26,537.53	-19,296.84	-9,297.11	21,077.8
Net Cash from (used by) Financing Act.	-66,437.46	-137,641.77	-211,113.83	-229,154.59	-210,188.2	-144,604.5
Net Change in Cash & Cash Equivalents	70,490.94	43,454.99	51,726.7	60,481.57	62,093.08	21,154.87

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