ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

**IJCSRR** @ 2021



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# Company Overview for 2017-2021: Apple vs Microsoft

Munisa Abdukarimova<sup>1</sup>, Prof. Abduraim Vahobov<sup>2</sup>, Prof. Vijay Shenai<sup>3</sup>

<sup>1</sup>Samarkand Institute of Economics and Service <sup>2</sup>National University of Uzbekistan <sup>3</sup>Cardiff Metropolitan University

**ABSTRACT:** The paper is devoted to company analysis and company stock trend analysis for two giants in electronics hardware and software market: Apple Inc. and Microsoft Corp. All data was derived from the companies' annual reports and some other referenced websites. Analysis has been plotted using Python including and excluding the most recent year due to data availability.

**KEYWORDS:** Apple Inc., Microsoft Corp., Financial Analysis

#### SALES AND STOCK MARKET DEVELOPMENT

In 1976 Steve Jobs, Steve Wozniak and Ronald Wayne founded Apple Computer Inc., renamed as Apple Inc. in 2007, which corporate headquarters located in Cupertino, California. The company started its business initially with personal computers and laser printers, from 2001 presented its portable digital audio players, iPods, iTouchs, iPhones and iPads and in 2011, services such as Siri and iCloud. Apple Inc. has been significantly pioneering in highly competitive electronics market through more dedicated and loyal customer base and continually innovating its products. It also significantly improved it software products such as AirPlay, FaceTime, iCloud, iCloud Drive, iOS, iPadOS, macOS, Xcode.

Currently Apple's assigned CEO is Tim Cook. As for FY2020 it has around 147,000 employees, operates its manufacturing mainly in China and manages its sales through more than 450 retail stores in 16 countries besides its third-party cellular network carriers, wholesalers, and online distribution markets.

The iPhone represents over 50% of Apple's revenue in 2020, though iPhone sales recently slumped, dropping from \$142 billion in 2019 to \$137 billion in 2020. Apple charges premium prices across all its products, which cause lower-priced smartphones take market share in developing countries. Apple has also long been criticized for its incompatibility with other software. Despite Apple stores closed in China as a result of the coronavirus, total sales for 2020 has not been plummeted from total sales in 2019.

767 \*Corresponding Author: Prof. Abduraim Vahobov

Volume 04 Issue 07 July 2021 Available at: <u>ijcsrr.org</u> Page No.-767-786

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

**IJCSRR @ 2021** 



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**Table 1.** Apple sales by products through 2017-2020 years, in thousand dollars (Adapted from the annual reports of Apple Inc.)

year	iphone	mac	ipad	wearables	services
2020	137781	28622	23724	30620	53768
2019	142381	25740	21280	24291	46291
2018	166699	25484	18805	17417	37190
2017	141319	25850	19222	12863	29980

**Table 2.** Apple sales by regions through 2017-2020 years (Adapted from the annual reports of Apple Inc.)

region thous dollars	2020	2019	2018	2017
US	124556	116914	112093	96600
other countries:	149959	143260	153502	132634
Europe	68640	60288	62420	54938
China	40308	43678	51942	44764
Japan	21418	21506	21733	17733
rest of Asia Pacific	19593	17788	17407	15199

Microsoft Corporation was founded in 1975 by Paul Allen and Bill Gates. The company sells operating systems, cross-device productivity applications, server application, business solution applications, desktop and server management tools, software development tools, video games, training and certification of computer system integrators and developers. It is headquartered in Redmond, Washington and has offices in more than 190 countries with around 166,475 employees (as for FY2020). Satya Nadella is currently in charge of Microsoft.

Microsoft is one of the leading players in the software industry through its Windows operating system and office utility tools. Its sales of server products and office products along with their cloud services accounted for more than half of total sales in 2020. Microsoft ranks one of the five largest cloud service providers among with AWS, IBM, Oracle and Google.

Unstable cybersecurity and unsuccessful acquisitions like WebTV, LinkExchange, Massive and Danger have been the biggest weaknesses of Microsoft.

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

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IJCSRR @ 2021



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Table 3. Microsoft sales by products through 2017-2020 years, in thousand dollars. (Adapted from the annual reports of Microsoft corporation)

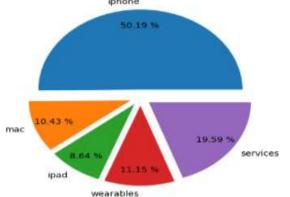
year	server_products_and_cloud_services	office_products_and_cloud_services	Windows	gaming	LinkedIn	search_advertising	devices	enterprise_services	other
2017	21649	25573	18593	9051	6219	2271	5542	5062	2611
2018	26129	28316	19518	10353	5259	7012	5134	5846	2793
2019	32622	31769	20395	11386	6759	7628	6095	6124	3070
2020	41379	35316	22294	11575	8077	7740	6457	6409	3768

**Table 4.** Microsoft sales by regions through 2017-2020 years (Adapted from the annual reports of Microsoft Corporation)

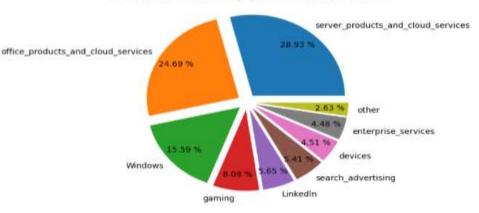
regions_thous_dollars	2020	2019	2018	2017
US	73160	64199	55926	51078
Other countries	69855	61644	54434	45493

Figure 1. Apple and Microsoft sales by products for FY2020





### Microsoft sales by products for 2020



ISSN: 2581-8341

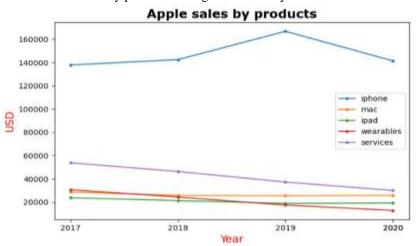
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DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Figure 2.** Apple and Microsoft sales by products through 2017-2020 years



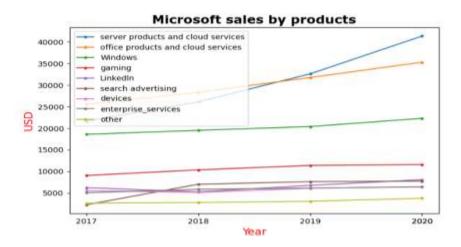
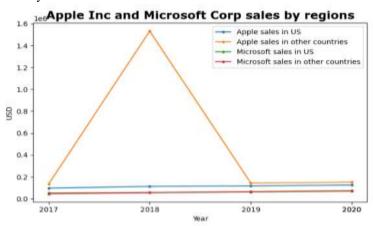


Figure 3. Apple and Microsoft sales by regions through 2017-2020 years



ISSN: 2581-8341

Volume 04 Issue 07 July 2021

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**IJCSRR @ 2021** 



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From 2017 to 2020 Microsoft sales were equally distributed to both US and other countries, while Apple had been highly selling to other countries by 2019.

**Table 5.** Apple and Microsoft sales forecast for 2021-2025

year	APPLE	MICROSOFT
2017	\$229,234,000,000	\$89,950,000,000
2018	\$265,595,000,000	\$110,360,000,000
2019	\$260,174,000,000	\$125,843,000,000
2020	\$274,515,000,000	\$143,015,000,000
2021	\$257,379,500,000	\$117,292,000,000
2022	\$264,415,875,000	\$124,127,500,000
2023	\$264,121,093,750	\$127,569,375,000
2024	\$265,107,867,188	\$128,000,968,750
2025	\$262,756,083,984	\$124,247,460,938

In table 5, sales of both companies were extrapolated with 5-period moving average till 2025, assuming, that sales keep same growth trend.

The latest closing stock price for Apple as of July 09, 2021 was 145.11, and for Microsoft it was 277.94. As can be seen from the figures below, stock trends of both companies have resembling patterns with their spikes and declines. Stock prices and market cap of the companies has changed as shown in the tables below, more detailed look can be found in <a href="https://github.com/Muniska/Project">https://github.com/Muniska/Project</a>.

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

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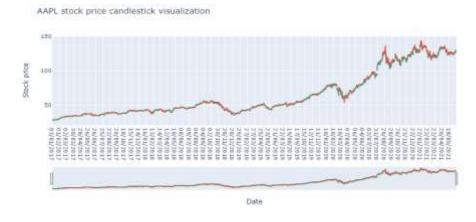
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**Table 6.** Apple and Microsoft stock price trends through 2017-2021 yy.

	date	open	high	low	close	volume	average_price	market_cap		date	open	high	low	close	volume	average_price	market_cap
0	03/01/2017	27.3275	27.4526	27.0821	27.4101	115127460	27.26735	3155.655191	0	03/01/2017	58.8006	58.8475	58.1779	58.6040	20694101	58.51270	1212.757095
1	04/01/2017	27.3393	27.4951	27.3157	27.3795	84472464	27.40540	2312.813828	1	04/01/2017	58.5103	58.7632	58.1732	58.3418	21339969	58.46820	1245.012203
2	05/01/2017	27.3559	27.5787	27.3299	27.5187	88774348	27.45430	2442.954650	2	05/01/2017	58.2388	58.6789	58.0889	58.3418	24875968	58.38390	1451.308750
3	06/01/2017	27.5588	27.8845	27.4857	27.8255	127007600	27.68510	3534.049974	3	06/01/2017	58.3418	59.1378	58.0983	58.8475	19922919	58.61805	1172.413976
4	09/01/2017	27.8349	28.1842	27.8326	28.0803	134247792	28.00840	3769.718274	4	09/01/2017	58.7725	59.0722	58.5665	58.6602	20382730	58.81935	1195.655018
1115	09/06/2021	127.2100	127.7500	126.5200	127.1300	55584187	127.13500	7088.417693	1115	09/06/2021	253.8100	255.5300	253.2100	253.5900	17873668	254.37000	4532.583468
1116	10/06/2021	127.0200	128.1900	125.9400	126.1100	70606505	127.08500	8904.186346	1116	10/06/2021	254.2900	257.4600	253.6700	257.2400	24422932	255.58500	6282.555028
1117	11/06/2021	126.5300	127.4400	126.1000	127.3500	52839952	126.77000	6729.167887	1117	11/06/2021	257.9850	258.4868	256.6100	257.8900	18791793	257.54840	4846.215497
1118	14/06/2021	127.8200	130.5400	127.0700	130.4800	96906490	128.80500	12644.358815	1118	14/06/2021	257.9000	259.9500	256.8000	259.8900	19150507	258.37500	4977.025264
1119	15/06/2021	129.9400	130.6000	129.3900	129.6400	60771136	129.99500	7878.370071	1119	15/06/2021	259.7750	259.9900	257.6800	258.3600	17034100	258.83500	4400.930076

1120 rows × 8 columns 1120 rows × 8 columns

Figure 4. Apple and Microsoft stock market development visualizations for 2017-2021 yy.





Date

MSFT stock price candlestick visualization

ISSN: 2581-8341

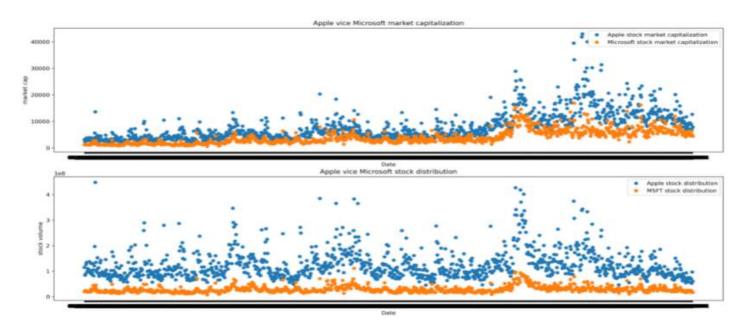
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DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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### **INCOME STATEMENT ANALYSIS FOR 2017-2020**

Apple's gross profit has not changed significantly through last four years, accounting for around 38% of total revenue. There were decline in operating income and EBIT in 2019. Apple's earnings per share have been rising from \$2.32 to \$3.31.

Microsoft has been improving its gross profit from 62% to 68% total revenue. It has been cutting largely its non-operating income expenses. Microsoft's operating income and EBIT has risen for around 20% in 2019. The company's earnings per share increased from \$2.74 to \$5.82.

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 7.** Apple Inc. Income statement vertical and horizontal analysis (Adapted from the annual reports of Apple)

		and the second second second			and the second second		and a same of			SOUTH AND ADDRESS OF THE PARTY	- Annual 2018	Control of the Contro	change 9040	entrioline chance M
Indicator_IS	emount2020	percentage2020		percentage2019		percentage2018		percentage2017		percentage_change2020		percentage change2099	111101000000000000000000000000000000000	percentage_change201
tatai_revenue	\$274,515,000,000		\$260,174,000,000		\$265,595,000,000		\$229,234,000,000		\$14,341,000,000		5-5,421,000,000		136,361,000,000	
cost_of_revenue	\$169,559,000,000	£1.77%	\$161,782,000,000	62.18%	\$163,756,000,000	61.66%	\$141,048,000,000	61,33%	\$7,777,000,000	4.87%	3-1,974,000,000	-1,21%	\$22,798,000,000	16,10%
gross_profit	\$104,996,000,000	38.23%	\$96,392,000,000	37.82%	\$101,839,000,000	38,34%	\$88,186,000,000	3847%	\$6,564,000,000	6.67%	5-3,447,000,000	-3.30%	\$13,653,000,000	15,48%
Selling_general_and_administrative	\$19,916,000,000	7.25%	\$18,245,000,000	7.01%	\$16,705,000,000	629%	515,261,000,000	6.66%	\$1,671,000,000	9.16%	\$1,540,000,000	9.22%	\$1,444,000,000	9.46%
Research and development	\$18,752,000,000	6.83%	\$16,217,000,000	6.23%	\$14,236,000,000	536%	\$11.581,000,000	5.05%	\$2,555.000,000	15.63%	\$1,961,000,000	13.92%	12,655,000,000	22.62%
total_operating_expenses	\$38,668,000,000	14.09%	\$34,462,000,000	13.25%	\$30,941,000,000	11.65%	\$26,642,000,000	11.71%	\$4,206,000,000	12.20%	\$3,521,000,000	11.38%	\$4,099,000,000	15.27%
operating_income	\$66,288,000,000	24.15%	\$63,930,000,000	24.57%	\$70,898,000,000	25.69%	\$61,344,000,000	26.76%	\$2,358,000,000	3.69%	\$-6.968,000,000	-9.03%	\$5,554,000,000	15.57%
interest_income_non_operating	\$3,763,000,000	1.37%	\$4,961,000,000	1.91%	\$5,686,000,000	1.14%	\$5,201,000,000	2.27%	\$-1,198,000,000	-24.15%	\$-725,000,000	-12.75%	\$465,000.000	9.33%
interest_expense_nah_aperating	\$2,873,000,000	1.09%	\$3,576,000,000	1.27%	\$3,240,000,000	122%	\$2,323,000,000	1.01%	\$-703,000,000	-19.66%	\$356,000,000	10.37%	\$917,000,000	19.47%
net_non_operating_interest_income	\$890,000,000	0.32%	\$1,385,000,000	0.53%	\$2,446,000,000	0.92%	\$2,878,000,000	1.26%	\$-495,000,000	-35.74%	\$-1,061,000,000	-43.38%	\$-432,000,000	-15.01%
other_man_operating_income_expense	\$87,000,000	0.03%	\$422,000,000	0.16%	\$441,000,000	0,17%	\$133,000,000	0.06%	\$-335,000,000	-79.38%	\$-19,000,000	431%	\$308,000,000	231.58%
pretas_income	\$87,091,000,000	24.44%	\$65,737,000,000	25.27%	\$72,903,000,000	27.45%	\$64,089,000,000	27.96%	\$1,354,000,000	2.06%	\$-7,166,000,000	-9.83%	\$8,814,000,000	13.75%
tax_provision	\$9,680,000,000	3.53%	\$10,481,000,000	4,03%	\$13,372,000,000	5,03%	\$15,738,000,000	6.87%	\$-801,000,000	-7.54%	\$-2,891,000,000	-21.62%	\$-2,366,000,000	-15.03%
net_insume_common_stockholders	\$57,411,000,000	20.91%	\$55,256,000,000	21.24%	\$59,531,000,000	22,41%	\$48,351,000,000	21,08%	\$2,155,000,000	3.90%	\$-4,275,000,000	-7.18%	\$11,180,000,000	33.12%
basic_EPS	\$3.31		\$2.99		\$3.00		\$2.32		\$0.32	10.60%	5-0.01	-0.40%	\$0,69	29.63%
diluted_EPS	\$3.28		\$2.97		12.98		\$2.50		10.10	1023%	\$-0.01	-0.17%	\$0.67	29.32%
transic_everage_shares	17352119000		18471336000		19821508000		20868968000		.1119217000	-6.06%	-1350172000	-6.81%	-1047450000	-5.02%
diluted_average_shares	17528214000		18595652000		20000436000		21006768000		-1067458000	-5.74%	+1404784000	-7.02%	-1006332000	4.79%
total_operating_income_as_reported	\$66,288,000,000	24.15%	463,930,000,000	24.57%	£70,898,000,000	26.89%	681,344,000,000	26.78%	\$2,258,000,000	3.69%	5-4,968,000,000	-9.83%	19,954,000,000	15.57%
tota_expenses	\$208,227,000,000	75.65%	£196,244,093,000	75.43%	\$194,697,000,000	73.31%	£167,890,000,000	73.24%	\$11,983,000,000	6.119	\$1,547.000,000	0.79%	126,607,000,000	15.97%
normalized_income	\$57,411,000,000	20.91%	£55,256,000,000	21,24%	459,531,000,000	22.41%	£48,351,000,000	21,09%	\$2,155,000,000	3.92%	1-4.275,000,000	-7:18%	\$11,180,000,000	35.12%
interest_income	\$3,763,000,000	1.37%	£4,961,000,000	1/91%	£5,686,000,000	2.14%	£5,291,000,000	2.27%	\$-1,198,000,000	-24.15%	\$-725,000,000	-12.75%	\$485,000,000	9.33%
interest_expense	\$2,873,000,000	1,05%	£3,578,000,000	5,37%	£3,240,000,000	1229	62,323,000,000	1.01%	\$-703,000,000	-19.68%	\$335,000,000	10.37%	\$917,000,000	19.47%
net_interest_income	\$890,000,000	0.32%	61,385,000,000	0.53%	£2,446,000,000	0.92%	£2,878,000,000	126%	\$-495,000,000	-55.74%	\$-1,061,000,000	-43.38%	\$-432,000,000	-15.01%
tot	\$69,964,000,000	25.49%	£69,318,000,000	26.64%	£76,143,000,000	25.67%	£66,412,000,000	28.97%	\$851,000,000	0.94%	\$-4,630,000,000	-8.97%	\$9,731,000,000	1485%
reconcled_depreciation	\$11,056,000,000	4.03%	£12,547,000,000	4,82%	£10,903,000,000	40%	\$10,157,000,000	443%	8-1,491,000,000	-11.88%	\$1,644,000,000	15,08%	\$746,000,000	734%
Horwalized_EB/TDA	\$81,020,000,000	29.31%	£81,860,000,000	31.48%	£87,045,000,000	12,77%	£76,569,000,000	33.40%	\$-840,000,000	+1/03%	\$-5,186,000,000	-5.96%	510,477,000,000	13,66%

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 8.** Microsoft Income statement vertical and horizontal analysis (Adapted from the annual reports of Microsoft Corp.)

Indicator, IS	amount2020	percentage2020	amount2019	percentage2019	amount2018	percentage2018	amount2017	percentage2017	change2020	percentage_change2020	change2019	percentage_change2019	change2018	percentage_change201
total_revenue	\$145,015,000,000	100/00%	\$125,645,000,000	100,00%	\$110,360,000,000	100.00%	\$89,950,000,000	100.00%	\$17,172,000,000	13.65%	\$15,463,000,000	14,03%	\$20,410,000,000	22.69%
cost_of_revenue	\$46,078,000,000	32.22%	\$42,910,000,000	34,10%	\$38,353;000,000	34.75%	\$34,261,000,000	38.09%	\$3,168,000,000	7.36%	\$4,357,000,000	11.68%	\$4,092,000,000	11.94%
ģross_profit	196,937,000,000	67.78%	\$82,933,000,000	65.90%	\$72,007,000,000	63,25%	\$35,689,000,000	61,91%	\$14,004,000,000	16.09%	\$10,926,000,000	15.17%	\$16,318,000,000	29.30%
Selling_general_end_administrative	\$24,709,000,000	17.28%	\$23,098,000,000	15.55%	\$22,223,000,000	20.14%	\$20,020,000,000	22.26%	\$1,611,000,000	6.87%	\$875,000,000	3.94%	\$2,203,000,000	11.00%
Research_and_development	\$19,269,000,000	13.47%	\$16,876,000,000	13.41%	\$14,726,000,000	13.34%	\$13,937,000,000	14.49%	\$2,393,000,000	14.18%	\$2,150,000,000	14.60%	\$1,689,000,000	12.96%
total_operating_expenses	\$43,978,000,000	30.75%	\$39,974,000,000	31,76%	\$36,949,000,000	33,48%	\$33,057,000,000	36.75%	\$4,004,000,000	10.02%	\$3,025,000,000	8.19%	\$3,892,000,000	11.77%
operating_income	\$52,999,000,000	37.03%	\$42,959,000,000	34,14%	\$35,056,000,000	31.77%	\$22,532,000,000	25,16%	\$10,000,000,000	23.28%	\$7,901,000,000	22,54%	\$12,428,000,000	54.90%
interest_income_non_operating														
interest_expense_non_operating	\$2,591,000,000	1.21%	\$2,686,000,000	2.13%	\$2,733,000,000	2.48%	\$2,222,900,000	147%	\$-95,000,000	-3.54%	\$-47,000,000	-1.72%	\$511,000,000	25.00%
net_non_operating_interest_income	\$-2,591,000,000	-1.81%	\$-2,666,000,000	-2.13%	\$-2,733,000,000	-2.48%	\$-2,222,000,000	-2.47%	\$45,000,000	-3.54%	\$47,000,000	+1.72%	\$-511,000,000	25.00%
other_non_operating_income_expense	\$2,660,000,000	1,87%	\$3,415,000,000	2.71%	\$4,145,000,000	3.76%	\$133,000,000	0.15%	\$-747,000,000	-21,87%	\$-734,000,000	-17.69%	\$4,016,000,000	3019.55%
pretax_income	\$53,036,000,000	37.08%	\$43,688,000,000	54.72%	\$36,474,000,000	33.05%	\$23,148,000,000	25.74%	\$9,348,000,000	21.40%	\$7,214,000,000	19,78%	\$13,325,000,000	57.56%
tax_provision	\$8,755,000,000	6.12%	\$4,448,000,000	3.53%	\$19,903,000,000	18/33%	\$1,945,000,000	2.18%	\$4,307,000,000	96-63%	\$-15,455,000,000	-77.65%	\$17,958,000,000	923-29%
net_income_common_stackholders	\$44,281,000,000	30.96%	\$39,240,000,000	51.18%	\$16,571,000,000	15.02%	\$21,204,000,000	23.57%	\$1,041,000,000	12.85%	\$22,669,000,000	136.80%	1-4,633,000,000	-21.85%
hasic_EPS	\$5.82		\$5.11		\$2.15		\$2.74		\$1	13.78%	55	137.63%	1-1	-21.38%
diuted_EPS	\$5.76		\$5.00		\$2.13		\$2.71		\$1	13.87%	53	138.05%	5-1	-21,47%
basic_average_shares	7610000000		7£73000000		7700000000		7746000000		\$-63,000,000	-0.82%	5-27,000,000	-0.35%	\$-46,000,000	-0.59%
dlufed_everage_shares	7683000000		7753000000		7794000000		7852000000		\$-70,000,000	-0.90%	\$-41,000,000	-0.53%	\$-38,000,000	-0.49%
Total_operating_income_ks_veported	\$52,959,000,000	37.03%	\$42,959,000,000	34.14%	\$35,058,000,000	\$1,77%	\$22,632,000,000.00	25.16%	\$10,000,000,000	23.28%	\$7,901,000,000	22.54%	\$12,426,000,000	54.90%
total_expenses	\$90,056,000,000	62.97%	\$82,884,000,000	65.86%	\$75,302,000,000	68.23%	\$67,318,000,000.00	74,84%	\$7,172,000,000	8.65%	\$7,582,000,000	10.07%	\$7,984,000,000	11.86%
normalized_insume	\$44,281,000,000	30.96%	\$39,240,000,000	31,16%	\$16,571,000,000	15.02%	\$21,204,000,000.00	23.57%	\$5,041,000,000	12.65%	\$22,669,000,000	136,80%	\$-4,633,000,000	-21.83%
interest_income														
interest_expense	\$2,591,000,000	1.01%	\$2,686,000,000	2.13%	\$2,733,000,000	2,48%	\$2,222,000,000.00	2.47%	5-95,000,000	-3.54%	\$-47,000,000	-1.72%	\$511,000,000	23.00%
net_interest_income	\$-2,591,000,000	-1,81%	\$-2,686,000,000	-2.13%	\$-2,733,000,000	-2.48%	5-2,222,000,000.00	-2.47%	\$95,000,000	-3.54%	\$47,000,000	-1.72%	\$-\$11,000,000	23.00%
EBIT	\$55,627,000,000	38,90%	\$46,374,000,000	36.85%	\$39,207,000,000	35.53%	\$25,371,000,000.00	20.21%	\$9,253,000,000	19.95%	\$7,167,000,000	16.26%	\$13,836,000,000	54.53%
reconcled_depreciation	\$12,796,000,000	8.95%	\$11,682,000,000	9.28%	\$10,261,000,000	9,30%	\$8,778,000,000.00	9.76%	\$1,114,000,000	9.54%	\$1,421,000,000	13-85%	\$1,483,000,000	16.09%
total_imusus_items	\$2,708,000,000	1.29%	\$3,472,000,000	2,76%	\$4,208,000,000	3.81%	\$2,990,000,000.00	3.32%	\$-764,000,000	-22.00%	5-736,000,000	-17.49%	\$1,218,000,000	40.74%
normalized_EBITDA	165,713,000,000	45.95%	354,584,000,000	43.37%	\$45,260,000,000	41.01%	\$31,199,000,000.00	34.64%	\$11,131,000,000	20.39%	\$9,324,000,000	22.60%	\$14,101,000,000	45.25%

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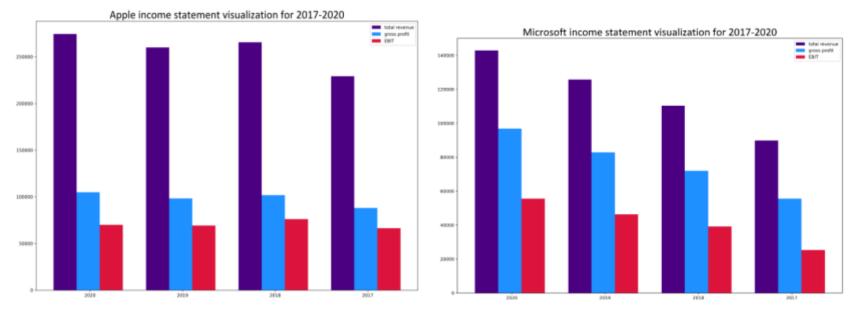
Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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Figure 5. Apple and Microsoft income statement visualizations for 2017-2020



ISSN: 2581-8341

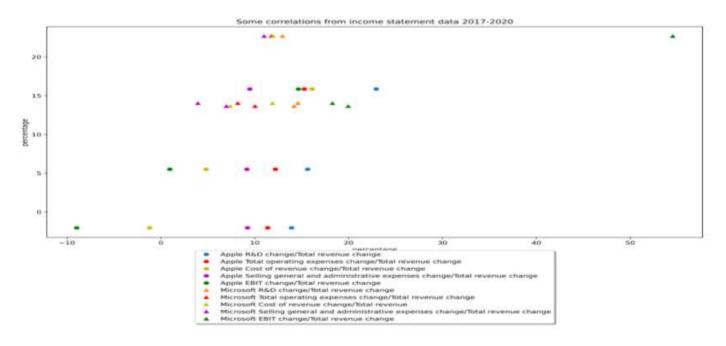
Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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### **BALANCE SHEET ANALYSIS FOR 2017-2020**

Apple's assets had been decreasing from 2017 to 2020. If in 2017 total current assets of the company accounted for 34.28% total assets, in 2020 it reached 44.37% of total assets. However total liabilities also surged in 2018 and 2020 years.

Microsoft's assets on the contrary were increasing from 2017 to 2020. Total current assets of the company accounted for 66.30% of total assets in 2017, which plumped to 60.37% in 2020. Although total liabilities had not changed over time, its share in total assets had been less than that in 2017.

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 9**. Apple Inc. Balance sheet vertical and horizontal analysis (Adapted from the annual reports of Apple)

Indicator BS	amount2020	percentage2020	amount2019	percentage2019	amount2018	percentage2018	amount2017	percentage2017	change2020	percentage_change2020	change2019	percentage change2019	change2018	percentage_change2016
Total_assets	\$323,888,000,000	100.00%	\$338,516,000,000	100,00%	\$365,725,000,000	100.00%	\$375,319,000,000	100,00%	\$-14,628,000,000	-4%	\$-27,209,000,000	:7.44%	\$-9,594,000,000	-2.50%
cain&cash_equivalents_short.term investments	\$60,943,000,000	26.08%	\$100,557,000,000	29.71%	\$66,301,000,000	18.13%	\$74,181,000,000	19.76%	\$-9,614,000,000	-10%	\$34,256,000,000	51.67%	\$-7,880,000,000	-1052%
receivables	\$37,445,000,000	11.56%	\$45,804,000,000	13.53%	\$48,995,000,000	13.42%	\$35,673,000,000	5.50%	\$-8,399,000,000	-18%	\$-3,191,000,000	-6.51%	\$13,322,000,000	37,34%
mentory	\$4,061,000,000	1.25%	\$4,106,000,000	1.21%	\$3,956,000,000	1.08%	\$4,855,000,000	129%	\$-45,000,000	-1%	\$150,000,000	3.79%	5-899,000,000	-18.52%
other_current_essets	\$11,264,000,000	5.40%	\$12,552,000,000	3.65%	\$12,067,000,000	3,30%	\$15,936,000,000	3.71%	\$-1,088,000,000	-9%	\$265,000,000	2.19%	\$-1,849,000,000	113.27%
total_current_assets	\$143,713,000,000	44.37%	\$162,819,000,000	48.10%	\$131,339,000,000	35,91%	\$128,645,000,000	34.28%	\$-19,106,000,000	.12%	\$31,480,000,000	23.97%	\$2,694,000,000	2.09%
net_PPE	\$36,766,000,000	11.35%	\$37,378,000,000	11.04%	\$41,304,000,000	11.29%	\$33,783,000,000	9.00%	\$-612,000,000	-2%	\$-3,926,000,000	-9.51%	\$7,521,000,000	22.26%
goodwilibother_intangible_essets	\$-	0.00%	f-	0.00%	§-	0.00%	\$8,015,000,000	2,14%	ş-		5-		\$-8,015,000,000	-100.00%
investments_and_advances	\$100,857,000,000	31.19%	\$105,341,000,000	31.12%	\$170,799,000,000	45.70%	\$194,714,000,000	51,58%	5-4,454,000,000	-4%	\$-65,458,000,000	-38.32%	\$-23,915,000,000	-12.28%
other_non_current_assets	\$42,522,000,000	13.13%	\$32,978,000,000	9.74%	\$22,283,000,000	6.09%	\$10,162,000,000	2.21%	\$9,544,000,000	29%	\$10,695,000,000	48.00%	\$12,121,000,000	119.25%
total_non_current_essets	\$180,175,000,000	35.63%	\$175,697,000,000	\$1.90%	\$234,586,000,000	64.09%	\$246,674,000,000	65.72%	\$4,478,000,000	3%	1-58,689,000,000	-25.04%	\$-12,288,000,000	4.99%
total Jabilties	\$256,549,000,000	79.83%	\$248,028,000,000	73.27%	\$258,578,000,000	70,70%	\$241,272,000,000	64.28%	\$10,521,000,000	4%	\$-10,550,000,000	-4.00%	\$17,306,000,000	7,12%
payables	\$42,296,000,000	13,08%	\$46,236,000,000	13.66%	\$55,888,000,000	15,28%	\$49,049,000,000	13,07%	1-3,940,000,000	-9%	\$-9,652,000,000	-17.27%	\$6,839,000,000	13.94%
persion_and_other_post_retirement_expenses	\$-	0.00%	<b>5</b> -	0.00%	\$-	0.00%	\$25,744,000,000	6.36%	ş.		5-		\$-25,744,800,000	+100.00%
current_debt	\$13,769,000,000	4.25%	\$16,240,000,000	4.80%	\$20,748,000,000	5.67%	\$18,475,000,000	4.92%	\$-2,471,000,000	-15%	\$-4,508,000,000	-21,73%	\$2,275,000,000	12.32%
current_deferred_labilities	\$6,643,000,000	2.05%	\$5,522,000,000	1.63%	\$7,543,000,000	200%	\$7,548,000,000	3.01%	\$1,121,000,000	20%	\$-2,021,000,000	-26.79%	5-5,000,000	-0.07%
other_current_liabilities	\$42,684,000,000	13.18%	\$37,720,000,000	11.14%	\$32,687,000,000	8.94%	\$-	0.00%	\$4,964,000,000	13%	\$5,033,000,000	15.40%	\$32,687,000,000	
total_current_labilities	\$105,392,000,000	32.54%	\$105,718,000,000	21-25%	\$116,866,000,000	31.93%	\$100,814,000,000	26.86%	\$-326,000,000	0%	5-11,148,000,000	-554%	\$16,052,000,000	15.92%
long_term_debt&capital_liabilities	\$96,667,000,000	30.46%	551,807,000,000	27.12%	193,735,000,000	25.63%	£97,207,000,000	25/90%	\$6,860,000,000	7%	\$-1,928,000,000	-2.06%	5-3,472,000,000	-3.57%
non_current_deferred_labilities	\$-	0.00%	f	0.00%	\$3,223,000,000	0.88%	£34,340,000,000	9,15%	1-		\$-3,225,000,000	-100.00%	\$-31,117,000,000	-90.61%
trade&other_payables	\$28,170,000,000	8.70%	\$29.545.000,000	8.75%	\$33,589,000,000	9.18%	£-	0.00%	\$-1,375,000,000	-5%	5-4,044,000,000	-12,04%	\$33,589,000,000	
other_non_current_labilities	\$26,329,000,000	8.13%	\$20,958,000,000	6,19%	\$11,765,000,000	3.05%	£8,911,000,000	2.37%	\$5,362,000,000	26%	\$9,793,000,000	87,71%	\$2,254,000,000	25.39%
total_non_current_rabilities	\$153,157,000,000	47.29%	\$142,310,000,000	42.04%	\$141,712,000,000	38.73%	£140,458,000,000	37.42%	\$10,647,002,000	6%	\$598,000,000	0.42%	\$1,254,000,000	0.89%
shareholders' equity	\$65,339,000,000	20 17%	\$90,488,000,000	56.73%	\$107.147.000.000	20 326	£134.047.000.000	35 226	\$-25,149,000,000,		5-16.659.000.000		\$-26,900,000,000	- Caronia

ISSN: 2581-8341

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DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 10.** Microsoft Balance sheet vertical and horizontal analysis (Adapted from the annual reports of Microsoft Corp.)

Indicator_BS	amount2020	percentage2020	amount2019	percentage2019	amount2018	percentage2018	smount2017	percentage2017	change2020	percentage_change2020	change2019	percentage_change2019	change2018	percentage_change201
Total_assets	\$307,311,000,000	100.00%	\$286,556,000,000	100/00%	\$256,846,900,000	100.00%	\$241,086,000,000	100,00%	\$14,753,000,000	3%	\$27,708,000,000	10,70%	\$17,762,000,000	737%
cash&cash_equivalents_short ferm investments	\$136,327,000,000	45.31%	\$155,819,000,000	46.70%	\$133,768,000,000	51.60%	\$132,961,000,000	15.16%	\$2,708,000,000	2%	\$51,000,000	0.04%	\$767,000,000	0.59%
receivables	\$32,011,000,000	10.62%	\$29,524,000,000	10.30%	\$26,481,000,000	10.23%	\$19,792,000,000	B.21%	\$2,487,000,000	8%	\$3,043,000,000	11/49%	\$6,689,000,000	33-80%
inventory	\$1,895,000,000	0.63%	\$2,063,000,000	0.72%	\$2,662,000,000	1.03%	\$2,181,000,000	0.90%	E-168,000,000	-8%	\$-599,000,000	-22.50%	\$481,000,000	22.05%
ather_current_essets	\$11,482,000,000	3.81%	\$10,146,000,000	3.54%	\$6,751,000,000	281%	\$4,897,000,000	2.03%	\$1,336,000,000	13%	\$3,395,000,000	55.29%	\$1,854,000,000	37.86%
tata/_current_assets	\$181,915,000,000	60.37%	\$175,552,000,000	6128%	\$169,662,000,000	65.53%	\$159,851,000,000	66.30%	\$6,363,000,000	4%	\$5,890,000,000	3,47%	\$9,811,000,000	E 14%
net_PPE	\$52,904,000,000	17.56%	\$43,856,000,000	15.50%	\$36,146,000,000	13.96%	\$23,734,000,000	9.54%	\$9,048,000,000	21%	\$7,710,030,000	21,33%	\$12,412,000,000	52.30%
goodwi-Siother_mangible_essets	\$50,389,000,000	16.72%	\$49,776,000,000	17.37%	\$45,736,000,000	16.90%	\$45,228,000,000	18.78%	\$613,000,000	1%	\$6,040,000,000	13.81%	\$-1,492,000,000	-3.30%
investments_and_advances	\$2,965,000,000	0.98%	\$2,649,000,000	0.92%	\$1,862,000,000	0.72%	\$6,023,000,000	2.50%	\$316,000,000	12%	\$757,000,000	42,27%	\$-4,161,000,000	-69/20%
other_non_current_assets	\$13,138,000,000	436%	\$14,723,000,000	5.14%	\$7,442,000,000	2.88%	\$6,250,000,000	2.39%	\$-1,585,000,000	-11%	\$7,281,000,000	97.84%	\$1,192,000,000	19.07%
total_non_current_assets	\$119,396,000,000	28.63%	\$111,004,000,000	38.74%	\$86,586,000,000	54.45%	\$81,235,000,000	33.70%	\$8,392,000,000	8%	\$21,818,000,000	24,46%	\$7,951,000,000	9.79%
total_labilities	\$183,007,000,000	60.74%	\$184,226,000,000	64.29%	\$176,130,000,000	68.04%	\$168,682,002,000	£9.97%	\$-1,219,000,000	-1%	\$8,096,000,000	4.60%	\$7,438,000,000	4.41%
payables	\$14,660,000,000	4.87%	\$15,047,000,000	5.25%	\$10,738,000,000	4.15%	\$8,205,000,000	140%	\$-567,000,000	-3%	\$4,309,000,000	42.13%	\$2,533,000,000	30.87%
pension_and_other_post_refirement_expenses	\$7,874,000,000	3.61%	\$6,830,000,000	2.38%	\$6,103,000,000	2.38%	\$5,819,000,000	2.41%	\$1,044,000,000	15%	\$727,000,000	11,91%	\$284,000,000	4.58%
current_debt	\$3,749,002,000	124%	\$3,516,000,000	1,92%	\$3,990,000,000	1,34%	\$10,121,000,000	420%	5-1,767,000,000	-32%	\$1,518,000,000	37.97%	\$-6,123,000,000	-60.50%
current_deferred_labilities	\$36,000,000,000	11,95%	\$32,676,000,000	11,40%	\$28,905,000,000	11.17%	\$34,102,000,000	14,15%	\$3,324,000,000	10%	\$3,771,000,000	13.05%	\$-5,197,000,000	-15.24%
other_current_liabilities	\$10,027,000,000	3.33%	19,351,000,000	3.26%	\$8,744,000,000	3.38%	\$6,290,000,000	2.60%	\$676,000,000	7%	\$637,000,000	6.94%	\$2,464,000,000	39.24%
total_current_liabilities	\$72,310,000,000	24.00%	\$69,420,000,000	24.23%	\$56,488,000,000	22.60%	\$64,527,000,000	26.77%	\$2,690,000,000	4%	\$10,932,000,000	18.69%	\$-6,039,000,000	-9.3E%
long_term_debt&capital_labilities	167,249,000,000	22.32%	\$72,650,000,000	HAPs	\$77,810,000,000	30.06%	£76,073,000,000	31.55%	\$-5,601,000,000	-8%	\$-4,960,000,000	-6.37%	\$1,737,000,000	2.28%
non_current_deferred_liabilities	\$3,384,000,000	1.12%	\$4,763,000,000	1.66%	\$4,356,000,000	1.68%	£10,908,000,000	4.52%	\$-1,379,000,000	-25%	\$407,000,000	9.34%	\$-6,352,000,000	-60.07%
trace&other_paywoies	\$29,432,000,000	9.77%	\$29,612,000,000	10.33%	\$30,285,000,000	11.69%	£-	0.00%	\$-180,000,000	-3%	\$-653,000,000	-2.16%	\$30,265,000,000	
other_non_cunent_labilities	\$10,632,000,000	3.53%	\$7,581,000,000	2.85%	\$5,211,000,000	2.01%	£17,184,000,000	7.12%	\$3,051,000,000	40%	\$2,570,000,000	45.48%	5-11,973,000,000	-69.66%
total_non_current_liabilities	\$110,697,000,000	35.74%	\$114,806,000,000	40.08%	\$117,042,000,000	45.45%	E104,765,000,000	43.21%	5-4,109,900,000	-4%	\$-2,836,000,000	-2.41%	\$13,477,000,000	1294%
shareholders' aquity	\$118.304.000.000		\$102,330,000,000		\$82.718.000.000		£72.394.000.000		\$15,974,000,000	16%	\$19,612,000,000	23.71%	\$10,324,000,000	14.26%

ISSN: 2581-8341

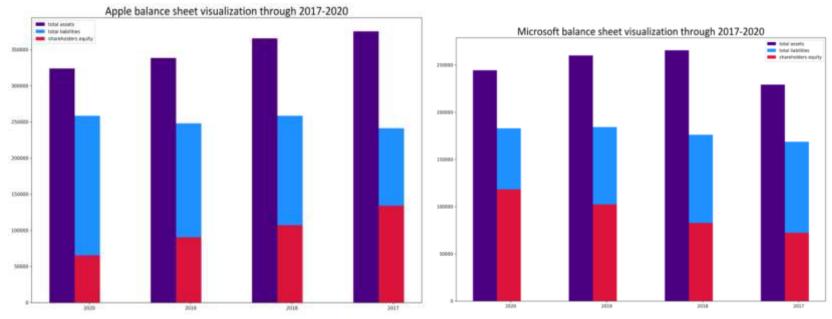
Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Figure 6.** Apple and Microsoft balance sheet visualizations for 2017-2020



ISSN: 2581-8341

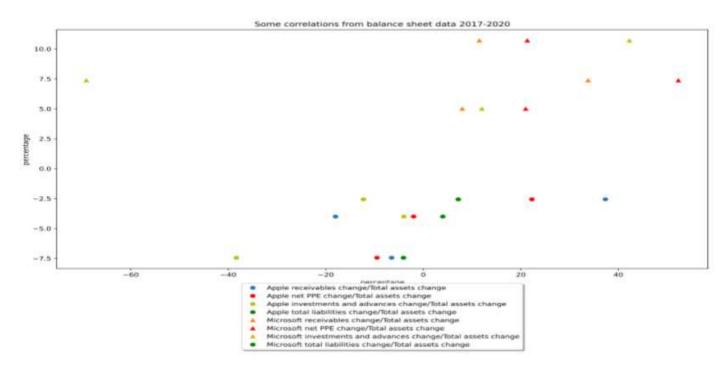
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DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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### **CASH FLOW STATEMENT ANALYSIS FOR 2017-2020**

Both Apple and Microsoft has improved their cash flows since 2017, except investing cash flows and financing cash flows, which were decreasing ever since.

ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 11.** Apple Inc. Cash flow statement vertical and horizontal analysis (Adapted from the annual reports of Apple)

**										
Indicator_CFS	amount2020	amount2019	amount2018	amount2017	change2020	percentage_change2020	change2019	percentage_change2019	change2018	percentage_change2018
cash_and_cash_equivalents_beginning_of_the_ year	\$50,224,000,000	\$25,913,000,000	\$20,289,000,000	\$20,484,000,000	\$24,311,000,000	93.82%	\$5,624,000,000	27.72%	\$-195,000,000	-0.95%
operating_cash_flow	\$80,674,000,000	\$69,391,000,000	\$77,434,000,000	\$63,598,000,000	\$11,283,000,000	16.26%	\$-8,043,000,000	-10.39%	\$13,836,000,000	21.76%
net_income_from_continuing_operations	\$57,411,000,000	\$55,256,000,000	\$59,531,000,000	\$48,351,000,000	\$2,155,000,000	3.90%	\$-4,275,000,000	-7.18%	\$11,180,000,000	23.12%
depreciation_ amortization_ depletion	\$11,056,000,000	\$12,547,000,000	\$10,903,000,000	\$10,157,000,000	\$-1,491,000,000	-11.88%	\$1,644,000,000	15.08%	\$746,000,000	7.34%
deferred_tax	\$-215,000,000	\$-340,000,000	\$-32,590,000,000	\$5,966,000,000	\$125,000,000	-36.76%	\$32,250,000,000	-98.96%	\$-38,556,000,000	-646.26%
stock_based_compensation	\$6,829,000,000	\$6,068,000,000	\$5,340,000,000	\$4,840,000,000	\$761,000,000	12.54%	\$728,000,000	13.63%	\$500,000,000	10.33%
other_non_cash_items	\$-97,000,000	\$-652,000,000	\$-444,000,000	\$-166,000,000	\$555,000,000	-85.12%	\$-208,000,000	46.85%	\$-278,000,000	167.47%
working_capital	\$5,690,000,000	\$-3,488,000,000	\$34,694,000,000	\$-5,550,000,000	\$9,178,000,000	-263.13%	\$-38,182,000,000	-110.05%	\$40,244,000,000	-725.12%
Investing_cash_flow	\$-4,289,000,000	\$45,896,000,000	\$16,066,000,000	\$-46,446,000,000	\$-50,185,000,000	-109.35%	\$29,830,000,000	185.67%	\$62,512,000,000	-134.59%
net_PPE_ purchase_and_sale	\$-7,309,000,000	\$-10,495,000,000	\$-13,313,000,000	\$-12,451,000,000	\$3,186,000,000	-30.36%	\$2,818,000,000	-21.17%	\$-862,000,000	6.92%
net_intangibles_purchase_and_sale	\$-	\$-	\$-	\$-344,000,000	<b>\$</b> -		\$-		\$344,000,000	-100.00%
net_business_purchase_and_sale	\$-1,524,000,000	\$-624,000,000	\$-721,000,000	\$-329,000,000	\$-900,000,000	144.23%	\$97,000,000	-13.45%	\$-392,000,000	119.15%
net_investment_purchase_and_sale	\$5,335,000,000	\$58,093,000,000	\$30,845,000,000	\$-33,542,000,000	\$-52,758,000,000	-90.82%	\$27,248,000,000	88.34%	\$64,387,000,000	-191.96%
net_other_investing_changes	\$-791,000,000	\$-1,078,000,000	\$-745,000,000	\$220,000,000	\$287,000,000	-26.62%	\$-333,000,000	44.70%	\$-965,000,000	-438.64%
Financing_cash_flow	\$-86,820,000,000	\$-90,976,000,000	\$-87,876,000,000	\$-17,347,000,000	\$4,156,000,000	-4.57%	\$-3,100,000,000	3.53%	\$-70,529,000,000	406.58%
net_issuance_payments_of_debt	\$2,499,000,000	\$-7,819,000,000	\$432,000,000	\$29,014,000,000	\$10,318,000,000	-131.96%	\$-8,251,000,000	-1909.95%	\$-28,582,000,000	-98.51%
net_common_stock_issuance	\$-71,478,000,000	\$-66,116,000,000	\$-72,069,000,000	\$-32,345,000,000	\$-5,362,000,000	8.11%	\$5,953,000,000	-8.26%	\$-39,724,000,000	122.81%
cash_dividends_paid	\$-14,081,000,000	\$-14,119,000,000	\$-13,712,000,000	\$-12,769,000,000	\$38,000,000	-0.27%	\$-407,000,000	2.97%	\$-943,000,000	7.39%
net_other_financing_charges	\$-3,760,000,000	\$-2,922,000,000	\$-2,527,000,000	\$-1,247,000,000	\$-838,000,000	28.68%	\$-395,000,000	15.63%	\$-1,280,000,000	102.65%
changes_in_cash	\$-10,435,000,000	\$24,311,000,000	\$5,624,000,000	\$-195,000,000	\$-34,746,000,000	-142.92%	\$18,687,000,000	332.27%	\$5,819,000,000	-2984.10%
cash_and_cash_equivalents_end_of_the_year	\$39,789,000,000	\$50,224,000,000	\$25,913,000,000	\$20,289,000,000	\$-10,435,000,000	-20.78%	\$24,311,000,000	93.82%	\$5,624,000,000	27.72%

ISSN: 2581-8341

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DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 12.** Microsoft Cash flow statement vertical and horizontal analysis (Adapted from the annual reports of Microsoft Corp.)

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Indicator_CFS	amount2020	amount2019	amount2018	amount2017	change2020	percentage_change2020	change2019	percentage_change2019	change2018	percentage_change2018
cash_and_cash_equivalents_beginning_of_the_year	\$11,356,000,000	\$11,946,000,000	\$7,663,000,000	\$6,510,000,000	\$-590,000,000	-4.94%	\$4,283,000,000	55.89%	\$1,153,000,000	17.71%
operating_cash_flow	\$60,675,000,000	\$52,185,000,000	\$43,884,000,000	\$39,507,000,000	\$8,490,000,000	16.27%	\$8,301,000,000	18.92%	\$4,377,000,000	11.08%
net_income_from_continuing_operations	\$44,281,000,000	\$39,240,000,000	\$16,571,000,000	\$21,204,000,000	\$5,041,000,000	12.85%	\$22,669,000,000	136.80%	\$-4,633,000,000	-21.85%
depreciation_ amortization_ depletion	\$12,796,000,000	\$11,682,000,000	\$10,261,000,000	\$8,778,000,000	\$1,114,000,000	9.54%	\$1,421,000,000	13.85%	\$1,483,000,000	16.89%
deferred_tax	\$-3,620,000,000	\$-3,534,000,000	\$13,040,000,000	\$-3,296,000,000	\$-86,000,000	2.43%	\$-16,574,000,000	-127.10%	\$16,336,000,000	-495.63%
stock_based_compensation	\$5,289,000,000	\$4,652,000,000	\$3,940,000,000	\$3,266,000,000	\$637,000,000	13.69%	\$712,000,000	18.07%	\$674,000,000	20.64%
other_non_cash_items	\$-219,000,000	\$-792,000,000	\$-2,212,000,000	\$-59,808,000,000	\$573,000,000	-72.35%	\$1,420,000,000	-64.20%	\$57,596,000,000	-96.30%
working_capital	\$2,148,000,000	\$937,000,000	\$2,284,000,000	\$69,363,000,000	\$1,211,000,000	129.24%	\$-1,347,000,000	-58.98%	\$-67,079,000,000	-96.71%
Investing_cash_flow	\$-12,223,000,000	\$-15,773,000,000	\$-6,061,000,000	\$-46,781,000,000	\$3,550,000,000	-22.51%	\$-9,712,000,000	160.24%	\$40,720,000,000	-87.04%
net_PPE_ purchase_and_sale	\$-15,441,000,000	\$-13,925,000,000	\$-11,632,000,000	\$-8,129,000,000	\$-1,516,000,000	10.89%	\$-2,293,000,000	19.71%	\$-3,503,000,000	43.09%
net_intangibles_purchase_and_sale	\$-	\$-	\$-	\$-	<b>\$</b> -		\$-		\$-	
net_business_purchase_and_sale	\$-2,521,000,000	\$-2,388,000,000	\$-888,000,000	\$-25,944,000,000	\$-133,000,000	5.57%	\$-1,500,000,000	168.92%	\$25,056,000,000	-96.58%
net_investment_purchase_and_sale	\$6,980,000,000	\$540,000,000	\$6,557,000,000	\$-12,511,000,000	\$6,440,000,000	1192.59%	\$-6,017,000,000	-91.76%	\$19,068,000,000	-152.41%
net_other_investing_changes	\$-1,241,000,000	\$-	\$-98,000,000	\$-197,000,000	\$-1,241,000,000	#DIV/0!	\$98,000,000	-100.00%	\$99,000,000	-50.25%
Financing_cash_flow	\$-46,031,000,000	\$-36,887,000,000	\$-33,590,000,000	\$8,408,000,000	\$-9,144,000,000	24.79%	\$-3,297,000,000	9.82%	\$-41,998,000,000	-499.50%
net_issuance_payments_of_debt	\$-5,518,000,000	\$-4,000,000,000	\$-10,201,000,000	\$31,459,000,000	\$-1,518,000,000	37.95%	\$6,201,000,000	-60.79%	\$-41,660,000,000	-132.43%
net_common_stock_issuance	\$-21,625,000,000	\$-18,401,000,000	\$-9,719,000,000	\$-11,016,000,000	\$-3,224,000,000	17.52%	\$-8,682,000,000	89.33%	\$1,297,000,000	-11.77%
cash_dividends_paid	\$-15,137,000,000	\$-13,811,000,000	\$-12,699,000,000	\$-11,845,000,000	\$-1,326,000,000	9.60%	\$-1,112,000,000	8.76%	\$-854,000,000	7.21%
net_other_financing_charges	\$-3,751,000,000	\$-675,000,000	\$-971,000,000	\$-190,000,000	\$-3,076,000,000	455.70%	\$296,000,000	-30.48%	\$-781,000,000	411.05%
changes_in_cash	\$2,421,000,000	\$-475,000,000	\$4,233,000,000	\$1,134,000,000	\$2,896,000,000	-609.68%	\$-4,708,000,000	-111.22%	\$3,099,000,000	273.28%
cash_and_cash_equivalents_end_of_the_year	\$-201,000,000	\$-115,000,000	\$50,000,000	\$19,000,000	\$-86,000,000	74.78%	\$-165,000,000	-330.00%	\$31,000,000	163.16%
cash and cash equivalents, end of the year	\$13,576,000,000	\$11,356,000,000	\$11,946,000,000	\$7,663,000,000	\$2,220,000,000	19.55%	\$-590,000,000	-4,94%	\$4,283,000,000	55.89%

ISSN: 2581-8341

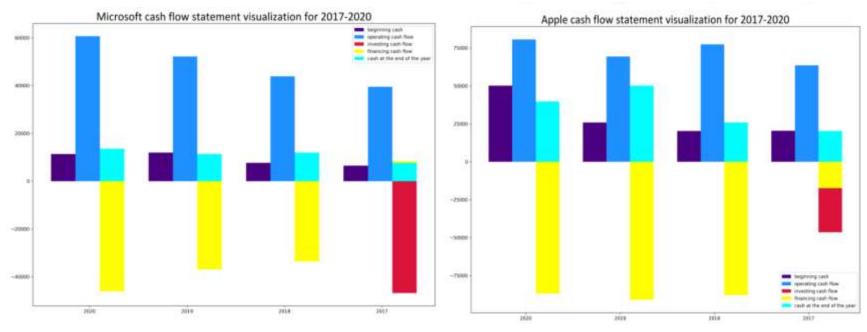
Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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Figure 7. Apple and Microsoft cash flow visualizations for 2017-2020



ISSN: 2581-8341

Volume 04 Issue 07 July 2021

DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Table 13.** Apple's liquidity, profitability, operating and financial leverage ratios (Adapted from the annual reports of Apple Inc.)

ratios	2020	2019	2018	2017
current_ratio	1.36	1.54	1.12	1.28
quick_ratio	1.22	1.38	0.99	1.09
gross_profit_margin	0.38	0.38	0.38	0.38
operating_profit_margin	0.24	0.25	0.27	0.27
return_on_assets	0.18	0.16	0.16	0.13
return_on_equity	0.43	0.35	0.33	0.24
asset_turnover_ratio	1.26	1.12	1.07	0.84
stock_turnover_period	8.74	9.26	8.82	12.56
account_receivable_ turnover	7.33	5.68	5.42	6.43
debt_to_asset_ratio	0.35	0.32	0.31	0.31

**Table 14.** Microsoft's liquidity, profitability, operating and financial leverage ratios (Adapted from the annual reports of Microsoft Corp.)

current_ratio 2.52 2.53 2.9 2.48   quick_ratio 2.33 2.35 2.74 2.37   gross_profit_margin 0.68 0.66 0.65 0.62   perating_profit_margin 0.37 0.34 0.32 0.25   return_on_assets 0.15 0.14 0.06 0.09   return_on_equity 0.26 0.27 0.14 0.22   asset_turnover_ratio 0.62 0.58 0.55 0.51   astock_turnover_period 15.01 17.55 25.33 23.24   account_receivable_turnover 3.82 2.75 2.25 2.52	1, 2, 1,, 2,, (,,,,							
quick_ratio 2.33 2.35 2.74 2.37   gross_profit_margin 0.68 0.66 0.65 0.62   perating_profit_margin 0.37 0.34 0.32 0.25   return_on_assets 0.15 0.14 0.06 0.09   return_on_equity 0.26 0.27 0.14 0.22   asset_turnover_ratio 0.62 0.58 0.55 0.51   stock_turnover_period 15.01 17.55 25.33 23.24   account_receivable_turnover 3.82 2.75 2.25 2.52	ratios	2020	2019	2018	2017			
gross_profit_margin	current_ratio	2.52	2.53	2.9	2.48			
operating_profit_margin   0.37   0.34   0.32   0.25     return_on_assets   0.15   0.14   0.06   0.09     return_on_equity   0.26   0.27   0.14   0.22     asset_turnover_ratio   0.62   0.58   0.55   0.51     stock_turnover_period   15.01   17.55   25.33   23.24     account_receivable_turnover   3.82   2.75   2.25   2.52	quick_ratio	2.33	2.35	2.74	2.37			
return_on_assets	gross_profit_margin	0.68	0.66	0.65	0.62			
return_on_equity     0.26     0.27     0.14     0.22       asset_turnover_ratio     0.62     0.58     0.55     0.51       stock_turnover_period     15.01     17.55     25.33     23.24       account_receivable_turnover     3.82     2.75     2.25     2.52	operating_profit_margin	0.37	0.34	0.32	0.25			
asset_turnover_ratio     0.62     0.58     0.55     0.51       stock_turnover_period     15.01     17.55     25.33     23.24       account_receivable_turnover     3.82     2.75     2.25     2.52	return_on_assets	0.15	0.14	0.06	0.09			
stock_turnover_period 15.01 17.55 25.33 23.24   account_receivable_turnover 3.82 2.75 2.25 2.52	return_on_equity	0.26	0.27	0.14	0.22			
account_receivable_turnover 3.82 2.75 2.25 2.52	asset_turnover_ratio	0.62	0.58	0.55	0.51			
	stock_turnover_period	15.01	17.55	25.33	23,24			
debt_to_asset_ratio 0.24 0.27 0.32 0.36	account_receivable_ turnover	3.82	2.75	2.25	2.52			
	debt_to_asset_ratio	0.24	0.27	0.32	0.36			

ISSN: 2581-8341

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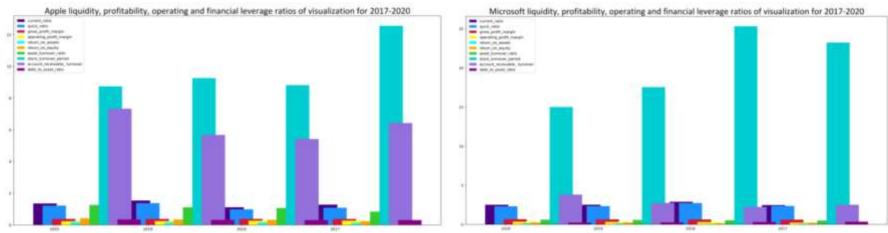
DOI: 10.47191/ijcsrr/V4-i7-21, Impact Factor: 5.825

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**Figure 8.** Apple and Microsoft ratio analysis visualizations for 2017-2020



### **CONCLUSION**

Key financial indicators show that Apple still maintains a high profit margin, though its debts continuously growing in the recent years. Microsoft is leading Apple on the level of liquidity and profitability and financial leverage ratios. However, Apple stays unbeatable on its operating ratios.

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Cite this Article: Munisa Abdukarimova, Prof. Abduraim Vahobov, Prof. Vijay Shenai (2021). Company Overview for 2017-2021: Apple vs Microsoft. International Journal of Current Science Research and Review, 4(7), 767-786