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| CONESTOGA COLLEGE |
| **Operating systems fundamentals** |
| **Assignment 1** |
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| **Nathan Nickel, Brandon Davies**  **September 29, 2014** |

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| Operating system | Who owns the Operating System? (Who is the manufacturer?) | What is the current version available? | What type of system is it? | What is the cost? (Or what open source license does it fall under?) | Who are the primary users? | What is the market share? |
| Android | (1) Google | (1) KitKat 4.4 | (2) Single-user, single task | (3) Apache Software License | Mobile users | (4) 44.62% |
| BSD | (5) No one person or corporation owns BSD. It is created and distributed by a community of highly technical and committed contributors all over the world. Some of the components of BSD are Open Source projects in their own right and managed by different project maintainers | FreeBSD, NetBSD OpenBSD | Can be Embedded, Multi-tasking, Single User | BDS 2 – Clause License | Website Hosts | (6) 1% of known website hosts |
| iOS | (7) Apple | (8) 8 iOS 8.x | (9) Single-user, single task | (10) Free to mobile Apple devices | Mobile users | (11) 44.19% |
| Linux | (12) Linux is a community owned OS but the trademark is owned by Linus Torvalds | (13) The latest stable Linux kernel is 3.16.2 | Multi-tasking, can Multi-user, can Distributed | (14) Version 2 of the GNU General Public License (GPLv2) | The primary users are “capable” computer users who want the control Linux gives over other OS’s like windows or mac. | (15) 1.67% |
| Mac OS X | Apple | Mavericks | Multi-Tasking, Single-User | OS is not sold separately | Professionals(Multimedia development, programing) | (15) 6.74% |
| Microsoft Windows | (16) Microsoft | (16) 8.1 | (17) Single-user, multi-tasking | (16) $119.99 | Desktop & Laptop users | (18) 13.37% (for windows8/8.1)  91.49% (total for all windowsDesktop and laptop computers) |
| Microsoft Windows Server | (19) Microsoft | (19) Windows Server 2012 | (20) Multi-user | (19) $4,999.95 CAD | Large businesses | (21) 58.27% |
| Microsoft Windows Mobile / Phone | Microsoft | 8.1 | Embedded  Multi-tasking  Multi-user | The OS is not sold separately | Everyone but business people | (15) 2.67% |
| IBM z/OS | IBM | 2.1 | Embedded  Multi-tasking  Multi-user  Distributed | There is a monthly cost, that is all that public | Businesses | (23) 27.9% |

References:

1. N/A. (September 25 2014). *Android (operating system).* Retrieved: September 25, 2014. From <http://en.wikipedia.org/wiki/Android_(operating_system)>.
2. Franklin, Curt, and Dave Coustan.  (August 14, 2000).  *How Operating Systems Work.*  Retrieved: September 23, 2014. from <http://computer.howstuffworks.com/operating-system3.htm>.
3. Ryan Paul. (Nov 6 2007) Why Google chose the Apache Software License over GPLv2 for Android. Retrieved: September 23, 2014. From <http://arstechnica.com/uncategorized/2007/11/why-google-chose-the-apache-software-license-over-gplv2/>.
4. N/A. (September 21, 2014). *Usage share of operating systems.* Retrieved: September 22, 2014, from <http://en.wikipedia.org/wiki/Usage_share_of_operating_systems>
5. Greg Lehey. (November 13, 2013). *Explaining BSD.* Retrieved: September 25, 2014, from <https://www.freebsd.org/doc/en/articles/explaining-bsd/article.html>
6. <http://w3techs.com/technologies/details/os-bsd/all/all>
7. N/A. (September 26 2014). *History of iOS*. Retrieved: September 26, 2014. From <http://en.wikipedia.org/wiki/History_of_iOS>
8. N/A. (September 26 2014). *History of iOS*. Retrieved: September 26, 2014. From <http://en.wikipedia.org/wiki/History_of_iOS>
9. Franklin, Curt, and Dave Coustan. (August 14, 2000). How Operating Systems Work. Retrieved: September 23, 2014. from <http://computer.howstuffworks.com/operating-system3.htm>.
10. Taimur Asad. (September 26, 2014). Download iOS 8 / 8.0.2 And Install On iPhone 6, 5s, 5c, 5, 4S, iPad, iPod touch [How-To Tutorial]. Retrieved: September 23, 2014. From <http://www.redmondpie.com/ios-8-beta-download-release-date-features-rumors-and-news-update/>
11. N/A. (September 21, 2014). Usage share of operating systems. Retrieved: September 22, 2014, from <http://en.wikipedia.org/wiki/Usage_share_of_operating_systems>
12. Alexander Wolfe (September 5 2007) Who Owns Linux? Linus. . .And A Detergent Company In Switzerland Retrieved: September 25, 2014 from <http://www.informationweek.com/applications/who-owns-linux-linus--and-a-detergent-company-in-switzerland/d/d-id/1055314>?
13. Kernel.org (N/A) *The Linux Kernel Archives*, Retrieved: September 25 2014, from <https://www.kernel.org/>
14. Linux Foundation (N/A) *What is Linux* Retrieved: September 24 2014, from <http://www.linuxfoundation.org/what-is-linux>
15. NetMarketShare (N/A) *Market Share Reports* Retrieved: September 24, 2014, from <http://www.netmarketshare.com/>
16. Microsoft (N/A). *Windows 8.1*. Retrieved: September 22, 2014, from <http://www.microsoftstore.com/store/msca/en_CA/pdp/productID.288438900>
17. Franklin, Curt, and Dave Coustan.  (14 August 2000).  *How Operating Systems Work*  Retrieved: September 23, 2014. From <http://computer.howstuffworks.com/operating-system3.htm>.
18. N/A. (September 21, 2014). *Usage share of operating systems.* Retrieved: September 22, 2014, from <http://en.wikipedia.org/wiki/Usage_share_of_operating_systems>
19. iTFactory.ca (May 06, 2014). *Microsoft Windows Server 2012 Datacenter 2 CPU OEM 64x.*Retrieved: September 25, 2014. From <http://www.itfactory.ca/product_info.php?products_id=2976&gclid=CjwKEAjw-o6hBRDOmsPSjqakuzYSJADR2V3SOfG7Ae-GKQsTEdnVQqU-e5rs_UsHGUr3XuuMvXGVPRoC0aHw_wcB#fo_c=79&fo_k=1e3c155e8aaedf24496b3f8c83537c0c&fo_s=gplaca>.
20. Franklin, Curt, and Dave Coustan.  (August 14, 2000). *How Operating Systems Work*. Retrieved: September 23, 2014. from <http://computer.howstuffworks.com/operating-system3.htm>.
21. Wikipedia (September 21, 2014). *Usage share of operating systems.* Retrieved: September 22, 2014, from <http://en.wikipedia.org/wiki/Usage_share_of_operating_systems>
22. IDC (N/A) *Worldwide Server Market Revenues Decline -6.2% in Second Quarter as Market Demand Remains Weak, According to IDC* Retrieved: September 25, 2014, from http://www.idc.com/getdoc.jsp?containerId=prUS24285213