

Distributed Operating Systems (COP 5615)

Project 1-Bitcoin

Krishna Murthy Takkillapati - UFID: 4368-1881

Department of Computer & Information Science & Engineering
University of Florida
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1. Instructions for Execution

Starting the server

-cd BitcoinMining
-dontet fsi serverMiner.fsx N \\N is the number of zeroes

Starting the client

-cd BitcoinMining
-dontet fsi clientMiner.fsx IP \\IP is the address of server to which it should connect

2. Size of the work unit vs Performance

Size of work unit	Actors	Real Time	CPU Time	Ratio
100000	12	13	65	5
1000000	12	100	586	5.86
10000000	12	988	5665	5.73
100000000	12	3675	19845	5.4

From the above results it can be seen that for number of actors equal to the processors in the system, the best optimal work unit for each actor is 1,000,000 to get the best ratio.

3. Result of running the program for input 4

```
C:\Users\ktakillapati\trial>dotnet fsi serverMiner.fsx 4 [INFO][9/24/2021 11:20:50 PM][Thread 0001][remoting (akka://ServerMiner)] Starting remoting [INFO][9/24/2021 11:20:51 PM][Thread 0001][remoting (akka://ServerMiner)] Remoting started; listening on addresses : [akka.tcp://ServerMiner@localhost:7777] [INFO][9/24/2021 11:20:51 PM][Thread 0001][remoting (akka://ServerMiner)] Remoting now listens on addresses: [akka.tcp://ServerMiner@localhost:7777] HashValue 000049A760AC0555AE5DA9CE16C337B86E37CB8BF56B56BA48AF2C7264255152 for
```

Input String ktakkillapatiNTNSJ9S0L57273 HashValue
0000C61B37EED767ACF44FBC7CC096A40251D5E4B4C827D0B12778D8718C0199 for
Input String ktakkillapatiMSMB584ORA7457 HashValue
0000A1C630A4AB0CFEF5D0578386D0FA93265DEE716B737E6A2D6289E3FE3C63 for
Input String ktakkillapatiMNU50G94SX26745 HashValue
00002473752292BE4A548EEA6467C8ADE59765E3373D435B174F822263DB5C8B for
Input String ktakkillapatiX0XNVP3WVA27695 HashValue
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Input String ktakkillapati0GHSOHAXC630991 HashValue
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Input String ktakkillapati9IQ686WDLJ32947 HashValue
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Input String ktakkillapatiZLSB4WIP6U36875 HashValue
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Input String ktakkillapatiC5S8P8J0NL39342 HashValue
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Input String ktakkillapatiGAZ7JJ279T46506 HashValue
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String ktakkillapatiE96RQEOVW559662 HashValue
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Input String ktakkillapati0DSDUBGK2Z59919 HashValue
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Input String ktakkillapati19QCZLX3DE566644 HashValue
0000B921948F2015103E1DA284446CF0BBD7B8A0774D392CA60A00131F5C3F27 for
Input String ktakkillapatiNA525W3UZQ567824 HashValue
00005E9E00A5FBBE59A080397CFE208EBEC5772B672D083E58E2BE5218F603B4 for Input
String ktakkillapatiACSCM6H22J571392 HashValue
00004E19ADB860395082F861CD580DA92F0288D8F5E0115B1E8CD9E794BFE27A for
Input String ktakkillapatiFVF5Y1LKK5590991 HashValue
0000B95848E700F4E1697D839C94B9712F60308DCC35CB33538C591B768D1A39 for
Input String ktakkillapatiMSU2QJ6DHA599579 HashValue
0000D47B91F9EF0F2207E0151B9A9344623EC54D6FD297E7C45AF5ADF7B98C06 for
Input String ktakkillapati05L8FORL4E601319 HashValue
00008FE4A18C13C2CF1EE71C64B2D908D63158B48EB2C6F7E96EDDD88EB7637A for
Input String ktakkillapati4C148E08K6603911 HashValue
00006FD2CEA80B6A0AE86306887E7947C0C1441430DA22E1E01114E8BF6F9849 for
Input String ktakkillapatiBYCEJ7LNFY607862 HashValue
000051204F8B5437921B7895DC55B3EA158BEA9532A018F749AD0F1A6A63E7A6 for
Input String ktakkillapatiR6ZQL6VPHU607853 HashValue
0000EBE3E8C30005D42FBB37C7ECC4193B6FEA01A8318AA3F5BF0F88900E5A3A for
Input String ktakkillapatiC066O11WTX605436 HashValue
0000B60997CD36A43C53FC68A4918323E1E22049C9A2A31B405F96F118F1DFE1 for
Input String ktakkillapatiWAG0CMU3EN616137 HashValue
000091277B26DC0275852185637A923B50933F8278C9095CD88C6C49A8FF4FA9 for
Input String ktakkillapatiLAKIPD3EQW618764 HashValue
00007C44E6F6BF251956C92F7BB50FADA39A9AB8921BC1FE122C4B232F23933C for
Input String ktakkillapatiGJTSV8SC10619448 HashValue
0000C5760C913756720D807A92B6FC5724818021B4E55BA6174FB49979ED0C43 for
Input String ktakkillapatiISQOAF0ODR625230 HashValue
00008B26BAF4CD2A066B9493F758254568D4D426DFA70FF2285F42B00DA81F31 for
Input String ktakkillapati9AXVHGP6N8627185 HashValue
00001C15D1E3C6D421D4B71069A4291861C9406B88A5D8F8AD21197FC8C778C4 for
Input String ktakkillapatiSHH7KU3ZZ0637402 HashValue
0000CBB1C2367ECC732F9B06D6F11DF105D0A03012D4D2346E28EF309BF705A0 for
Input String ktakkillapati5H0W4M1XQV635124 HashValue
00007754F727E601DE7A25F38622AAF0AC3B2CB0272163E472016058E56CCCC9 for
Input String ktakkillapatiLQPLZ5X4QY636844 HashValue
0000FAFF049316BAA863C7FC2A355CCCC840B1386F3AA3B3CE8C124E9B4A9999 for
Input String ktakkillapati3KMHXIPXD0643837 HashValue
00003830DB077006C9D817CC86C3AF404777C6441B6D517CF89C4DB4377E65EF for
Input String ktakkillapati4KOWYCKM0G646148 HashValue
0000E78BD002AE86A827FF34497403C2C2EB939773305C62932B829F268BD700 for

Input String ktakkillapati87OXCG3WHD657282 HashValue
00006707817055DF3CF728A53A1EBD8D8866B6D50EB665DFAE8D6A7AF3464E96 for
Input String ktakkillapatiANX8ZP0ERK659445 HashValue
00007B1C80E10AA30ECACCB3E2CF9F261CDEC06759115888D6B496B9615EC4A6 for
Input String ktakkillapati157XHVI8Q3663953 HashValue
000040702C09E38050F78E438E455A36DFF7E551F986E21ABC758FD17025CBD0 for
Input String ktakkillapatiFNQ4QWYBFE668612 HashValue
0000E314784A4AAC8BEE54B6761014B8B61F9FE1D229DAAB451471EADD58F4DD for
Input String ktakkillapatiFPZPS78QGQ677977 HashValue
00005650B1B50DD6CE28C6AB0F4A3AC30A3F7DB87ECFCD9004DFCB5D54333221 for
Input String ktakkillapatiMX381TD75671987 HashValue
0000F4418A3DA4324C8A6CEA87CB0CEDE7F376E684DD3DFF16EEF28588ABC7C1 for
Input String ktakkillapatiDJOUNYNGTK698284 HashValue
00004A875EBA0397BC0EB30DA027ACC5A14381CFD1EB238387E65A242B3236C0 for
Input String ktakkillapatiS2H0MJCPDL694724 HashValue
0000B0068817A0D0211312F17B29492427EE5ADD7F80980F4EE104DE7CC617FE for
Input String ktakkillapatiDVLO6QGHX3704902 HashValue
0000FF286127CE859F91AF4BDC726B911BEB9E7A10CFD72C8C36E81446E03E24 for
Input String ktakkillapatiFRG6D9119Z730887 HashValue
00004610CF0BFEF9B87E77DE6F2FB9E3455685D9CD077BE4C77E97A3DB038B8A for
Input String ktakkillapatiDTS46KSQH724610 HashValue
000037A95CFDC7BFEE25FB4A0E68B72D124DF7FAF56DF50213C2AF71334176B1 for
Input String ktakkillapati1CR69DN4GN736299 HashValue
0000F5B60EA616971E5A98934579CF44E426726367F6AF04F4EDFF5BF274FBB5 for Input
String ktakkillapati4SCL15GBKQ736351 HashValue
00008212766DBB882C5ED39D0319C259E0618982FB7D609177AC28E0B4DEC2B4 for
Input String ktakkillapatiA4FE0JN7TR740309 HashValue
0000969A04E5BB02B19BD25C7F3104D8C945D614332756642D7F9331F540623A for
Input String ktakkillapati41D9OVGNFI747149 HashValue
00007CDE95D2E987D186983ED0D1D4B42C324C8F37CD1FEC7162741552C135D3 for
Input String ktakkillapati8P54U7Y6WI740479 HashValue
0000D64DF7117446C218FE828410F711E1E6B50C4E9F077142BD91D52F1B985D for
Input String ktakkillapatiAA4YX0ILLU758317 HashValue
00003F261BF5013C8E0553CBD654FF7215BB0CCD0AF73EB325D135ED5FD693F3 for
Input String ktakkillapatiXXIN3D6SFV768721 HashValue
0000E861E7E96B78B8A0BD65568AF24581360DA1B563CB0B84A2DE516B79400B for
Input String ktakkillapatiP910993O7777314 HashValue
000078D4E259EA99B219D274BE561E2BA3BCA1DE221F6E8E2874FF6C7B1A65AD for
Input String ktakkillapatiFPWN0GUHG4779100 HashValue
0000D54C3E9FAAF6D39B959C4DB140B4F8421B52AB432BC0BD1718DADC4BB2F8 for

Input String ktakkillapati5GR36XMH48777844 HashValue
00005CF3AA99FB5F122BFDC6E8E017A73175DC8EF6BDF93BB14198CC4854AB64 for
Input String ktakkillapatiRLKJIP8W5U784128 HashValue
0000D3618E2F4853C053C1355138ECD8630D81EC8C2DCA4CBB65F8404E350D3B for
Input String ktakkillapatiKTHWAFFEV7785084 HashValue
00008D3848B46F990B8A33ED84F732F8E38B09E01F2839A032D37D4363071AD6 for
Input String ktakkillapatiGEH5SM27TI775922 HashValue
0000D026DC715DE9BE71832D9E2CEB486DDB7D94428471046AC8648CDA66CAB2 for
Input String ktakkillapatiH0IFBDOKDY789562 HashValue
00006B66E09161A477B7151843B15418D8E96431FFEE2F0973E61CB45BBC6D9C for
Input String ktakkillapatiE4XITH0G2Z792248 HashValue
0000C9DC8EF3921B51A65DCD012DF3FB34760728D2BEE902FA294596E9083AFE for
Input String ktakkillapati68NB9HX1FZ790895 HashValue
00006D4E884AF25AE4D7B4D2BFD69838740383ACF963096F341276E0EC2FA6E0 for
Input String ktakkillapatiH4COH3WZJP793545 HashValue
0000DCA69E8AF3E0E84E36DDE4FE117DF23F9BB7AC09E0C23404CD2DB04A3478 for
Input String ktakkillapatiOKPEYUG5O4799511 HashValue
000006CFCBCFB55D9B116D6617F6CC6A7267FF8C9600960BE6BA337C5C03C447 for
Input String ktakkillapatiEKI1LSHSBY802981 HashValue
00000C4C2D54E05FBA9C57C78EF24FCC415B0298744D89A6FDD0CC85AA826300 for
Input String ktakkillapatiFIXPTAS4RX807949 HashValue
000017717881CB5DA31BCA94C4D9952DD3EC1FB6DD866C744EE124A5B46FD764 for
Input String ktakkillapati5HST0L2VZK812897 HashValue
0000CB236D22F4CB830D83D8BCA14F582E4F1EB97DC97ACE208B63030B773A42 for
Input String ktakkillapati7R0OYLY300818392 HashValue
0000B4589E8AA3B9A504D2689648A7893D2B3FB46ADFE3A7BAF0B8D7A6F7201E for
Input String ktakkillapatiH1DA74QHNP834858 HashValue
0000DF15881B04159ACA36783F8ADC312DB13C50DDC7FF34F7CD9802D87572A2 for
Input String ktakkillapatiJH2T2TTHV9840076 HashValue
0000DA8B4383A6ABB9580BBA8611385358000BE073073DA21C753ECBEA80A34F for
Input String ktakkillapatiTV32NG28JF832821 HashValue
0000E533FD2F884A1772A24FAFAE8706B4E5B9AA5E60D4F940140667A7ACB36E for
Input String ktakkillapatiLNADN68IPR843862 HashValue
000078017298DE6C42424C1F14AE9EC79CBCE2EA711873BED868A64706D2B2FA for
Input String ktakkillapati2J2X4X6M1G845521 HashValue
000026EA760586A8EEA9EAC1080A7E046790A76F2F9A3944C569ED2265DD1220 for
Input String ktakkillapatiVDYHE8N8NL844692 HashValue
00002A11DB6D97F71F18C04093C7E6BA409FB7DE3026210A5D5C20DDB6BD47C6 for
Input String ktakkillapatiO4N9NXI8UU870065 HashValue
000096E62896F82288DAB8C61F2A574DB38584C707C434B32B02DE6CC446E00D for

Input String ktakkillapatiY0AVTZ22EP879557 HashValue
00001BA2D26EB913EEB62E49DBB3A78EC54C3DB07C2E0F15553E77D637D4309D for
Input String ktakkillapatiVQL5MBA563886558 HashValue
0000197203B0EA5AB6A91AB4668BC657FE19F387D27A9284A28ABB1835734D73 for
Input String ktakkillapatiR6QVF3TFMW891133 HashValue
0000AABB340C08EB00E7312C9D826DB0B72380F658F00332C31DF7F3024430A5 for
Input String ktakkillapatiG3FJHAU9Q6900415 HashValue
0000DA6475C8F6A29B04CEE60085DDB35D47F15E3E43694AFA7277289BACAAE9 for
Input String ktakkillapati4Y3B7MTBW5899424 HashValue
000099292F1C98012813EFAC022F160D4D9898E6A7245BAF208DA5A3913EF274 for
Input String ktakkillapatiT06OTJKEX899924 HashValue
0000A2C9193383370B3D51F804E538FC30D628E2B369A36494CBE208EFF3F6BC for
Input String ktakkillapatiOO6T2A4XOS907634 HashValue
0000E71C70672A2E127E9159EDC73E80F3A66B76DA4039F4B8240CE1E9E3BD74 for
Input String ktakkillapatiOJQP4X5EES917906 HashValue
0000128A019C19FA04D2A094E93C2359C50F0BEBE2BD885B2498612A0E8A0FA2 for
Input String ktakkillapatiZ5TXS0QSB2926824 HashValue
000009766068FC9D6D8BB6C529C920B0D6694B52E8554DF1165ADA8328CDE287 for
Input String ktakkillapatiK08O8RY43L932552 HashValue
00006A0B937BB7C9C57D64812ABC440B9C5B1AE3011744BF47F9B471B30796BB for
Input String ktakkillapatiGUY235D0S2944700 HashValue
00007AE9ED7612547AF7D5A5CE09DBEE2F414657CFF02BD10008FF153E5B8771 for
Input String ktakkillapatiUIMHWSUW7O959761 HashValue
000041147F4C14AD332D41F541D10DF42F81F0613E59D9D001DB5E661878E7D9 for
Input String ktakkillapatiJHJDEOE5LB960635 HashValue
0000900D706B2C3AD71F31D343987985333161781CC036335002764C4BAFEFF5 for
Input String ktakkillapatiBX1KBHD97L957400 HashValue
00007F56CF9CC4B8FCF933AE9527EA4C262B0C06FCCF6A5D3C88D0A2B2AD3A13 for
Input String ktakkillapatiZWJGVMFRYE970112 HashValue
000001E133F346BEDAB4CC174BFC399AD7BCC8091A1781BABC87973AEF3C5977 for
Input String ktakkillapatiYDKCYUY2KI974949 HashValue
0000EB2D2A2623F1A9495D864BE397465CDDEE2D9488A7C6756A9562408DA770 for
Input String ktakkillapatiZV6F1ELITN979446 HashValue
0000F6687CFA3EF8A2C8283D7D2EEF268F9ED54A1A95AB6EA8FC811DE5D51336 for
Input String ktakkillapatiZ8PA7U1JFE977258 HashValue
0000E2EC6645A2F81816DDEB07B34BE339BBB050CAA296DC0B0BCE9874469417 for
Input String ktakkillapatiZ0WEGEPQX5987577 HashValue
000032C5C6CDF9920011FADBEEB8A2BC21F6C8A9E133FF2032D1722B5F654F11 for
Input String ktakkillapatiHNB3KP12N6993949 HashValue
00006FAD523590E4F6070BB6354727E616B6594E70511CFD1C5F742B79D0963A for

Input String ktakkillapati9LN1NMX4AR997010 HashValue
000003B6F8B7B569529F0A85B20DFB259A99CF88485E08F59FA12F737529D5A8 for
Input String ktakkillapatiU754XK0LOQ996221

4. Running time for the given case

Real: 00:01:40.322, CPU: 00:09:46.796, GC gen0: 64802, gen1: 16, gen2: 1 Real time = 100 seconds

CPU time = 586 seconds

Ratio= CPU time/ Real time => 5.86

5. Coin with the most 0s

I was able to mine coins with 7 zeroes, below is the output hash and string found

HashValue

0000000FFA79CD394DBD1E995EB7A96EC86DC503EA32FAD14F49C687A4F0B90C

for Input String ktakkillapatiPDZCUYE8U6503

HashValue

0000000D4B744C4277D6E9E0007C4AF796020FDF42743324B78EDCF0C0150C8A

for Input String ktakkillapatiNJLAU4489N5210601

HashValue

0000000E0F38D20529B3D9CF09A7F7F7A6ACB8EE79A30FFC5CDCA8C802653AE0

for Input String ktakkillapati4U26STAM7K2299265

6. Largest number of working machines I could connect

I was able to connect two machines i.e. client connecting to server and able to distribute the work and terminate upon completion of the task given.