COP5615 DOS PROJECT

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Compilation and run configuration:

 Navigate to the Project folder in Remote worker; cd RemoteWorker sbt run

 Navigate to the Server project folder; cd project1 sbt run k sbt run k ip

where k= number of zeros ip = remoteIP address

- 3. Change the hostname appropriately in the application.conf file residing in RemoteWorker and project1
- **Size of the work unit:** It divides the amount of work amongst the workers created by the ConstructionManager. Whichever worker is available takes the work up and starts the bitcoin mining and rest of the time Master keeps mining for the bitcoins by itself if none of the workers are available.

In this case; since the number of workers are constant the size of the work unit grows exponentially Big Oh (94ⁿ).

The best performance bitcoin is as follows: sthrm91S2;

000000f38264f46af7b44384702a9796f8e1adda21786d0b31fb3f42eb562740

Result of running the program for k=4

Scala project1 4

caturn9a/.[caturn9`^,, caturn9`]]T caturn9`Z}| caturn9`x]G caturn9`WD1 caturn9`TBr caturn9a)RB caturn9`rpF caturn9a'mf caturn9u)Ih caturn9ttfo caturn9thn? caturn9u#1U caturn9u9=U caturn9u4V| caturn9u4?e caturn9t=6p caturn9t1S1 caturn9t9Cc caturn9t/t7 caturn9t/ME caturn9t5#R caturn9t^Pm caturn9tV+V caturn9nv[t caturn9nhM| caturn9ne}G caturn9n|i\ caturn9no(#

00005601c9ct7e648b59eebe63t6e14te7703b68d2t14te64tcc8tcdbc84c278 0000567d5cb07beaeaee8605a224777fb1e43e152bfebeb8449536bdcfd630a8 00003f86bd8d39847e6ccb992d07d496dc15147be823ab1985dd56756a94b03f 0000438fcce96ca12daf18a2de872b65561c2a292a905f6d1aba3dd28b86e22d 0000321bb9dd6e77c9e20ef79ff5ccac363473539de30be697ef1511106bd7a1 00001f66e111d3738f88d937c9cf556fbaf565b31fc5f28fa73261f0e91a55b6 0000cdfc99e4e35e8fb2dfd4db520dda62e7f5e1614d4f893f2a1ff74b16b89c 00001e6c65194ba506f5e11939492f79dcad963fb2d158d3120f5576470eabe2 000036b6c181e9574dfd6bb3c58aec8180517a7f90b5fcf940755a224ec15a8d 0000a6f0a848d46a758c7d06abda4ed8761f869aab968806d0f6853b95d30e91 00002716d7185558d84a0cb63164faf140c5f06e4492a87ac0856d83521adffa 0000553f87c5392eaef8820297fbfb7f9c33cb9c1ab50a55a024bf247d904416 0000ba2d06eb8ccc9b301bcaeb0b5089fb3b5570b21c3e2f291f4a9aba297389 0000022ca1a8618f29a45bb1f29775120f571905a210b60d5899392f74f5b7ac 0000c4c7ed140c3fb6ccf129d576b40f100ddccf4e4ee1470112c11c7d91d41a 0000295f7eba962489e12c264d5b70aa833a4fbe999c28346c62693b491cd005 0000e5c3352a80afdba881a311ed087a8c9c88791d8f43875c31928b43cba9d0 0000c6b2baa000b7e3908bd1fe3b04fa70e2c0cd3f24712065bca638c74267bf 000056fd38d978411a246b5ba34480ae319d370a24684e39478d275703544318 00007afaa2d298395940c738c8a6d70637e052c7b270c31ee084f923388ba3da 00009a8d33c77c88d41421622fcf0778ac5d81e3a141fff1551f324ce85673ec 00003f8552e7cc2739219ffd44d541f1e471e4692ec5780ad634d37f17933f00 000055a5ee1f26d6a224d09db922026387e277b7992cf654e923839ea94ab452 00009c1b3fb1833af2a68dafedb5651786b158f18060e7aff31bbeef77dfa162 0000bcdc45dce7ce9a7830972360706af63c7a3758880d2748677f5b0be0df28 00005d60c6b0ec59758d64018e242ed3c825f95dc4dae52b4eff4b65034a54e1 00001a0848fe6f5df8661ba599c60cd65b7686c8f647f82a6736d55cdf5997bf 00001332a8f945183cadd421d182bbadd41ac4aea97c9a289a7621840828c26e 0000f1d98bb1953a789e19b6931c57db98aa7b9cb9560c5c3c60039c3e82a4c8 00009b4f3e233f492a977df72acc46abfc68df05c7ad2e3c0918103e2a493af2

• Running time report for:

scala project 15

User time= 132.85u

Kernel time= 2.13s

CPU time= 134.98

Real time= 20.81

Number of cores= CPU time/Real time =134.98/20.81 =6.7 approximately 6 cores

Number of machines used:

3