Analyzing Large Log Files

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**Introduction –**

The main emphasis of this project is to analyze large log files containing access log information for CS systems and find top 15 IP addresses and accounts accessed by those IP addresses. The report describes the approach taken to realize final goal of this project which includes algorithm used and post processing of data to realize desired output structure. The report also describes instructions to execute the program and sample output which you get after executing the program

**Map Reduce –**

We decided to use Map Reduce algorithm for analyzing large log files. As Map Reduce works by distributing the work over multiple Mappers and Reducers over a network, we selected this algorithm with intention of analyzing multiple files in parallel and thus reducing final runtime of the program.

**Data Preparation –**

The contents of all access log files were present in a fixed pattern. The IP Address was always present as first word of a line and account name was always preceded by tilde (~) sign in a line. Once we figured out a way to extract IP address and account name by tracing the above described pattern in the program, we didn’t perform any additional data preparation activities.

**Data Processing –**

The program takes input in form of command line arguments. The names of all files are taken in an array and the array is passed is passed forward for further processing.

For data processing, we extended the standard Map Reduce class in our program. From main method, we pass one file name at a tie from the input array into the ‘execute’ method. Thus, for 3 log files, the execute method is called 3 times. In presence of multiple mappers, each mapper will be tasked to process one file. The execute method calls the mapper method and passes the file name to it. The mapper method extracts all IP addresses and accounts from the file and maps all accounts to their respective IP addresses. Thus, mapper emits IP address and all accounts by the address as a key value pair. For each IP address, reducer gets list of accounts and it emits each account with its corresponding IP address.

During the phase of post processing of data, we created tree map structure to store all IP addresses and their respective accessed accounts. We also created a hashset structure to store all unique account names for a particular IP address, and thus eliminate duplicate account names accessed by one IP address. The final data is stored in a list with tuples in format of IP address, accounts and total number of accounts accessed. After storing all IP addresses and their accessed account names, we sort the list in descending order of total number of accounts and display the first 15 IP addresses and account names accessed by them.

Lessons Learnt –

Looking back, given the available resources and system constraints, we are quite sure is that Map Reduce is best possible solution for given requirement of the project. The project can also be realized using only java data structures and threads, but that would take more time to execute for such large log files. If asked to work on similar data set in the future, we would try to improve data preparation techniques and come up with better ideas to extract information from log files.

**Instructions for running program -**

The following are the instructions to run the program.

1. Make sure files MapReduce.class, AccessLogs.java and all log files are present in the same folder.
2. Open terminal application on CS machine.
3. Write following commands on terminal:
4. Javac \*.java
5. Java AccessLogs access\_log access\_log\_3 access\_log\_new

The three files after AccessLogs class name are log files which are taken as input.

**Output:**

We get the following output after passing 3 large log files to program for analyzing.

#1 occuring address: 211.216.103.188

bmp4235, cmh9427, mpr9284, cxa1949, bnr3839, tvo9075, ken6134, ers3268, jdl8219, ghb1001, mrs6264, wck1910, dnn0182, lxe2883, mxm6574, rja1587, sxl5090, jeh5581, pmt6263, mdl8158, vjf6412, dis5149, ndn7322, njs8030, cxp2822, djr7581, amj4510, sab3317, pmd8870, axs3497, afw0359, rgp5682, wxy1291, rns5045, whh5154, ajn9108, smp7886, jbg8713, rcs0940, pgk7025, tpo7551, boa8488, mxs9917, njs9152, meb0984, ner9848, mjh1697, mkp8819, tmk4722, tdp4357, djh4350, ejk6825, aep1966, twb8626, hlm0011, eer7286, jfm8918, hwl2309, mkm0466, jjr3455, cxp9009, agp7723, cmr0348, pxs5461, mdw4361, ajd4166, pxc9821, dij4361, rwm5894, jsg1324, dpl0806, mdm3513, jjm7995, sgu4018, axj0483, djb2070, kxm6065, ebk3521, mxm3254, irr1449, pso7025, kmw0567, jms0218, kmc6820, jak5034, wcr6041, smw5352, mds0111, ksb8327, lah5523, vxv8403, shm5473, sak6988, jar6070, dlr1225, all1205, cef2163, mxd9928, jpm4819, fxl3374, jts0422, kwt0195, dtk2037, lmb8845, rbm6563, jmm5433, msw4585, sxm4866, paw, bwg0858, scd1879, 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#2 occuring address: 65.214.36.117

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#10 occuring address: 216.239.46.133

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#11 occuring address: 216.239.46.164

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#12 occuring address: 216.239.46.193

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#13 occuring address: 216.239.46.166

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#14 occuring address: 216.239.46.140

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#15 occuring address: 216.239.46.204

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Siddharths-MacBook-Air:Project 3 SidBid$ javac \*.java

Siddharths-MacBook-Air:Project 3 SidBid$ clear

Siddharths-MacBook-Air:Project 3 SidBid$ java AccessLogs access\_log access\_log\_new access\_log\_3

#1 occuring address: 211.216.103.188

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#9 occuring address: 216.239.46.75

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#10 occuring address: 216.239.46.133

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#11 occuring address: 216.239.46.164

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#12 occuring address: 216.239.46.193

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#13 occuring address: 216.239.46.166

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#14 occuring address: 216.239.46.140

cdr5441, wen2559, mpr9284, amk9458, dsm5856, nxg6191, kxh6049, ajb1391, jac3787, jaa, jxb0502, mez8702, icss361, cxw0106, led0041, kge7490, dmh7224, mxh0011, jaa7104, jmp8060, pjv6136, ajh0995, ndn7322, jmm8340, cxp7449, mrd1109, icss231, njs8030, jpa8684, icss351, jkg9634, dnd9403, cdg2433, gar8595, ram8009, dtv6770, icss235, icss234, dxb7413, icss233, abc8518, sfa5313, jmr7547, jmb5063, sjs0640, pga, ewd5363, glg5760, cen0282, awh4992, grd8301, icss341, cs2-grd, rkr, mkp8819, hpb, ark, bxr5159, del7479, ncs, csdoc, kxy6184, esb9138, tvn6705, gmm1616, bvs4997, jdb, apm9733, maf8113, rkn4233, erd4819, kjn8626, sjr1521, sls6076, mdm3513, bll6037, sgu4018, icss334, tan2056, gwj3667, jsb7384, mxm3254, jmg, jpb8058, nmg1829, gfc7581, mvp4022, dph1174, swm, slr2777, tdb5818, jeh, kxb4032, ffg3183, lac, emk3594, fdn2479, adl8790, akn0473, atk, cww5940, lxz0062, kcl8605, ats, eh, eam8920, jat9360, paw, sxn, kbc4660, scd1879, rce9873, dlm8689, aes2336, mdl9285, spr, cslab, mdr9016, rwd, gck7129, cs1, tml2825, cs3, cs2, sjl5824, cs4, anhinga, jdc9088, amt, sng5511, rsc7461, mrb6858, icss263, mmr, jst1734, baw9095, afb, icss544, jib9640, cxm1147, jrms, gab5730, sxc3971, cs3-grd, icsg720, axk2789, rtc0400, adb6790, mpp8195, wrc, sac8371, swh9110, waw, tad4649, rpj, axt9690, dvp2326, ptt, cxm1497

#15 occuring address: 216.239.46.204

mdb4562, dxk3582, fsi2630, nxg6191, csx, slm5989, kxh6049, jaa, mgw6456, tmh, jxb0502, hxp8813, msm5714, icss361, dre9227, omc4527, lxe2883, msm1074, phm0150, mmb5486, ats3085, ajd5356, rxr2990, ams2449, cxz2509, kjd6081, mrd1109, leb4189, njs8030, icss231, icss352, mpv, p719-01b, mbd0240, amj4510, vhc3327, mdf9907, cac2372, icss235, icss234, ajk8244, bcb2708, svd5439, sss6686, jcs2350, rxg8002, pga, asm6855, axk4132, jxj8963, ner9848, mjh1697, rkr, bxc2495, hpb, ark, djh4350, ncs, csdoc, ags4764, mxc5943, mkm0466, jdh3090, jst5340, jdb, maf8113, dpg2099, mpv9903, lws7636, mjh, seh2117, rkn4233, src1504, sjr1521, dij4361, sls6076, mjc2078, tjw1881, sgu4018, icss456, stk9297, mjr8305, icss334, mvp4022, swm, mhn5054, jeh, smh7237, lac, spm4006, jrg0839, akn0473, bsg3433, dlr1225, axj7140, atk, jdd5747, axt8828, djl1266, ats, dtk2037, icss707, njs3983, exr3177, kaa3496, paw, kbc4660, jwh2457, jbo5112, txl2715, bjr1822, dpk7386, mwm4201, spr, jmp9746, jxk6924, shk8974, sls9925, rwd, bws0794, cs1, cs0, cs3, cs2, cs1-grd, rpt2415, cs4, anhinga, csdept, jsl9020, exb6767, fxs0344, amt, icss263, mmr, zpl8666, sfa4941, afb, kar, jrk3666, jrms, mxj2084, twl1797, cxl7607, pmm1626, wrc, sac8371, jmm3077, rxk4983, rpj, sxm3233, ptt, jco9473, nwh5408, p590-01e, jaw6099, jkc9915, mpd3564