ALAMSYS: DEVELOPMENT OF STOCK MARKET PRICE FORECASTING SYSTEM USING DYNAMIC MODE DECOMPOSITION, LONG SHORT-TERM MEMORY WITH ARNAUD LEGOUX MOVING AVERAGE CONVERGENCE-DIVERGENCE INTEGRATION

A Special Problem
Presented to
the Faculty of the Division of Physical Sciences and Mathematics
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University of the Philippines Visayas
Miag-ao, Iloilo

In Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science by

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Abstract

Abstract here

Keywords: Keyword 1, keyword 2, keyword 3, keyword 4, etc.

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Appendix A

Source Code Repository

Follow this link to access the code repository for this special problem: https://github.com/GravitonXD/OLARTE_SP. It should be noted that this repository also contains all of the miscellaneous files, such as the tex files used to create this paper, test codes, and so on. The following are the primary directories for this project:

- (a) alamSYS contains the source code for alamSYS as well as the docker and docker-compose files.
- (b) DeepLearningModel contains all of the Python notebooks used in the development of this special problem for training, testing, and cross-validation of the models, trading algorithm, and other calculations.
- (c) alamAPP This directory contains the source code for the mobile-based test application.

Future developers who want to expand the functionality or dig deeper into this special problem can use the following repository links:

- (a) alamSYS https://github.com/GravitonXD/alamSYS
- (b) DMD-LSTM https://github.com/GravitonXD/alamSYS_DMD-LSTM
- (c) alamAPP https://github.com/GravitonXD/alamAPP

Appendix B

Raw Data Figures

B.1 Exploratory Stocks Data Graphs

The figures below depict combined line graphs of the opening, high, low, and closing prices of each stock in the alamSYS. These figures also demonstrate why closing prices were chosen as the primary training feature of the models developed for this particular problem. Aside from being the most important price target in most trading and investing strategies, closing prices do not differ significantly from the other price metrics.

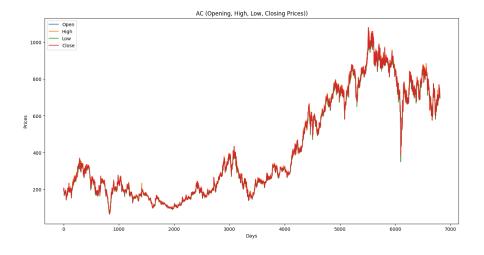


Figure B.1: Opening, High, Low, and Closing Prices on AC

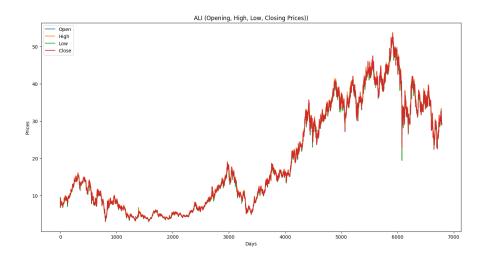


Figure B.2: Opening, High, Low, and Closing Prices for ALI

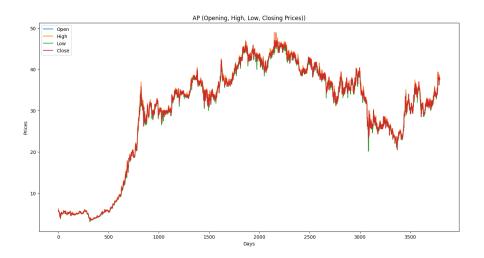


Figure B.3: Opening, High, Low, and Closing Prices for AP

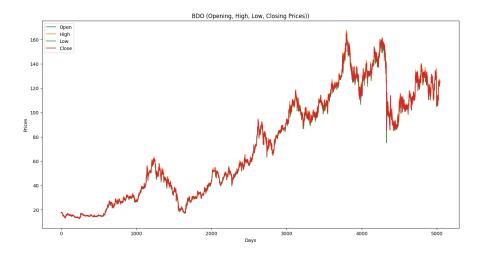


Figure B.4: Opening, High, Low, and Closing Prices for BDO

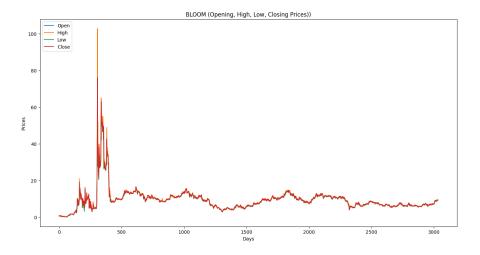


Figure B.5: Opening, High, Low, and Closing Prices for BLOOM

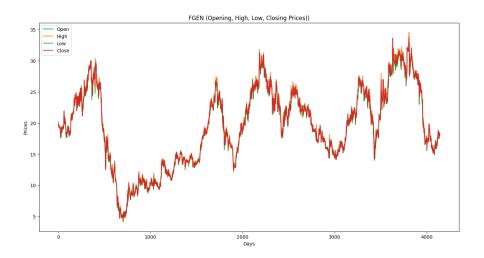


Figure B.6: Opening, High, Low, and Closing Prices for FGEN

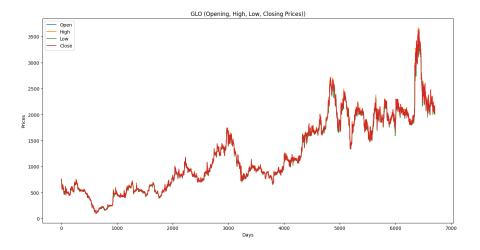


Figure B.7: Opening, High, Low, and Closing Prices for GLO

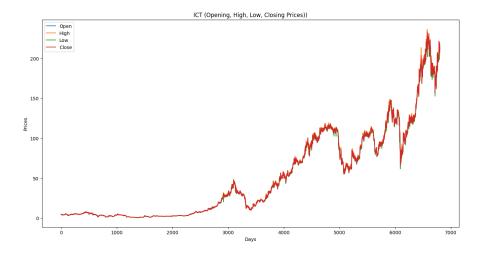


Figure B.8: Opening, High, Low, and Closing Prices for ICT

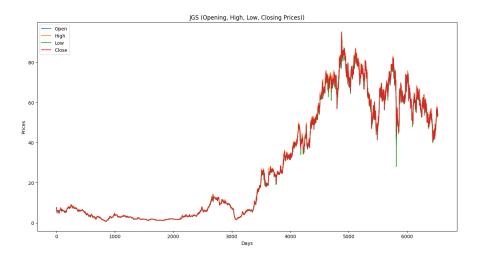


Figure B.9: Opening, High, Low, and Closing Prices on JGS

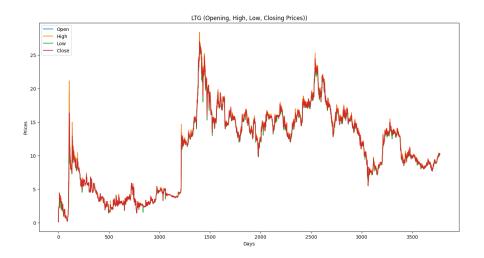


Figure B.10: Opening, High, Low, and Closing Prices on LTG

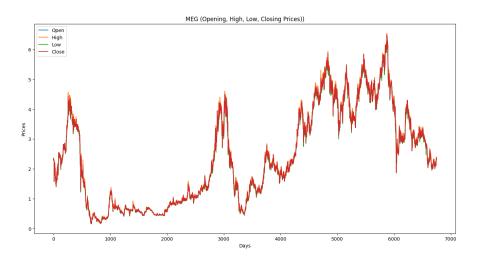


Figure B.11: Opening, High, Low, and Closing Prices on MEG

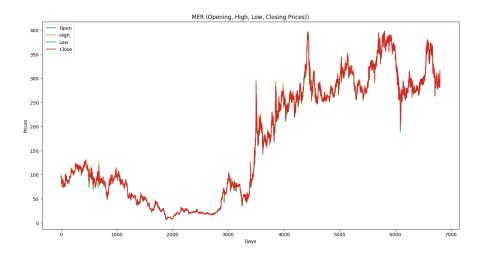


Figure B.12: Opening, High, Low, and Closing Prices on MER

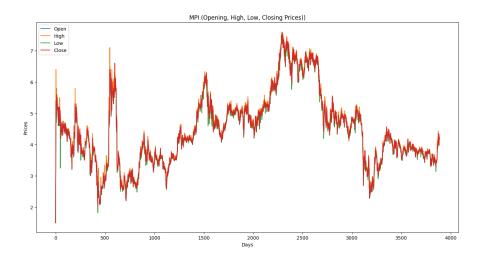


Figure B.13: Opening, High, Low, and Closing Prices on MPI

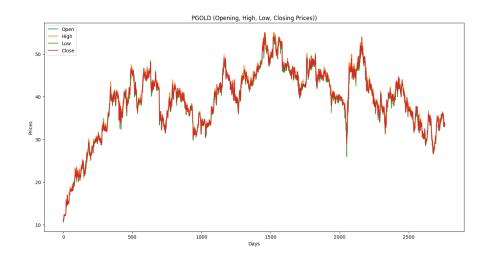


Figure B.14: Opening, High, Low, and Closing Prices on PGOLD

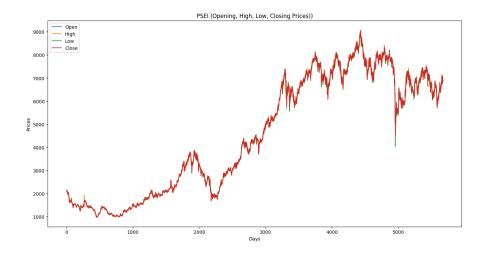


Figure B.15: Opening, High, Low, and Closing Prices on PSEI $\,$

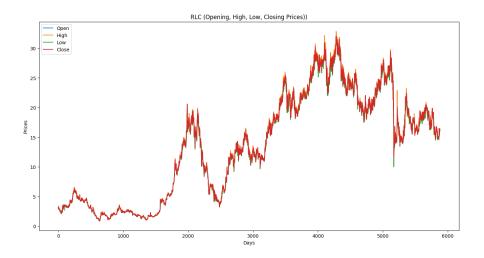


Figure B.16: Opening, High, Low, and Closing Prices on RLC

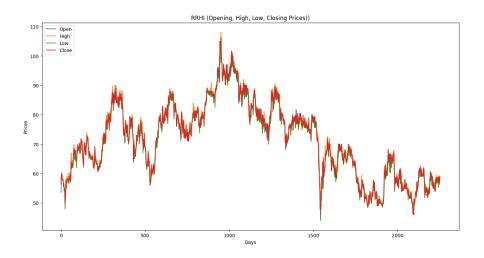


Figure B.17: Opening, High, Low, and Closing Prices on RRHI

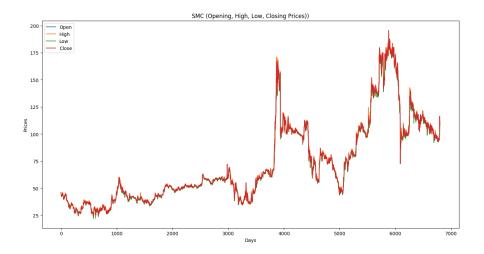


Figure B.18: Opening, High, Low, and Closing Prices on SMC

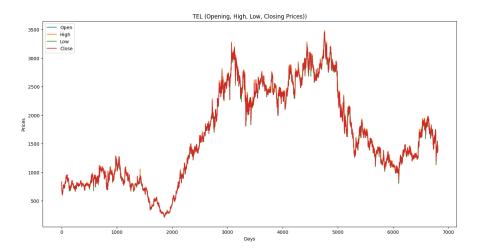


Figure B.19: Opening, High, Low, and Closing Prices on TEL

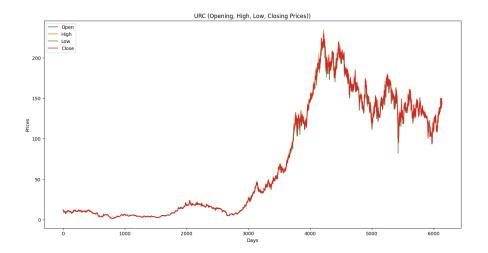


Figure B.20: Opening, High, Low, and Closing Prices on URC

B.2 Raw Model Testing and Cross-Validation Results

The loss metric scores for all eight models trained in this special problem are shown in the figures below.

model_baseline5.csv × ,MSE,RMSE,MAE,MAPE MEG, 0.08072020880069887, 0.2841130211741427, 0.27684353215352125, 1174375793447.243 JGS, 0.07874435548854763, 0.2806142467668875, 0.27468463899133194, 38927690524.79277 BDO, 0.07657096858490822, 0.27671459770837575, 0.2738142088271028, 0.07038134913330009 FGEN, 0.07827957682896561, 0.2797848759832554, 0.2758278796079067, 0.09700174437968641 ICT. Ø. 0781394551452297. Ø. 27953435414136435. Ø. 2736751085473064. 1438507573768. 6584 ALI,0.0782312069917634,0.2796984215038823,0.27508077757070465,0.1147421270770546 SMC,0.07691227333252271,0.2773306209788647,0.27482445944890904,0.06707341533873201 TEL.0.07692274391391254.0.27734949777115614.0.2741700883069239.0.038119574269088366 GL0,0.07723200155169901,0.2779064618746729,0.2740521994194121,0.040133964505169824 $\verb+BLOOM+, 0.09321696719529625+, 0.30531453813288395+, 0.2859447234165783+, 499188752957+, 71985+, 1999188752957+, 199918875295+, 199918875295+, 1999188752957+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 199918875295+, 19991887545+, 1999188565-, 19991887545+, 19991887545-, 19991887545-, 199918875455-, 1999188755-, 1999188755-, 1999188755-, 1999188755-, 1999188755-, 1999188755-, 19991887$ RLC, 0.07891466401483171, 0.2809175395286519, 0.27499496364466064, 0.2790370163068907 MER, 0.07860945075825411, 0.28037376974006345, 0.2748269458519563, 0.06180059505843166AC,0.0775170120978667,0.2784187710946708,0.2741992480954101,0.04794242756170382 PGOLD, 0.07650623749204255, 0.2765976093389864, 0.2738838287046534, 0.07546795486985015 LTG, 0.09027857607286971, 0.30046393472906147, 0.2845669124314392, 2960460439858.6323 MPI,0.07896762492375467,0.2810117878733109,0.2764535402803122,0.19535308715023528 AP,0.07613355995038901,0.27592310514052465,0.2735462968120787,0.09278031794532755 RRHI,0.07715208334861212,0.277762638503835,0.2753872091002812,0.06488774012116955 URC, 0.07801107752908334, 0.27930463212965756, 0.2739888283647051, 0.10613413435989405 $\mathsf{PSEI}, 0.07615895487932436, 0.27596911943064273, 0.275949626259796, 0.12659175356184194$

Figure B.21: Raw Model Scores for Baseline 5

model baseline10.csv X

.MSE.RMSE.MAE.MAPE NEG. 0. 009889911754036293. 0. 00994480354458362. 0. 06758199064508962. 434720971982. 4056 JG5,0.007846138726297082,0.08857843262497414,0.06152327438608147,85566335564.84262 $\mathtt{BDO}, \emptyset.\, 0032789824378326032, \emptyset.\, 05726239986092622, \emptyset.\, 04134258195038248, \emptyset.\, 01078718865869783248, \emptyset.\, 0107871886586978324, \emptyset.\, 010787188658697844, \emptyset.\, 01078718865869784, \emptyset.\, 010787188658697864, \emptyset.\, 0107871886786, \emptyset.\, 010787188669786, \emptyset.\, 010787188669786, \emptyset.\, 0107871886697866, \emptyset.\, 0107871886669786, \emptyset.\, 010787188669786, \emptyset.\, 0107871886669786, \emptyset.\, 0107871886669786, \emptyset.\, 0107871886669786, \emptyset.\, 010787186666, \emptyset.\, 0107871866, \emptyset.\, 0107871866, \emptyset.\, 0107871866, \emptyset.\, 01078718666, \emptyset.\, 0107871866, 0107871866, 0107871866, 0107871866, 0107871866, 0107871866, 0107871866, 0107871866, 01078718$ FGEN, 0.004700003599831854, 0.06855657225847755, 0.049436469316649294, 0.018101504501868163 ICT, 0.007829080848597167, 0.08848209337824896, 0.05683387085820871, 357524334780.4415 ALI,0.005405470132370961,0.07352190239901958,0.05348223646735878,0.023718671100290755 SMC,0.0032675047380823336,0.05716209179239624,0.03835913806689466,0.009415067971236714 TEL,0.003890710198736975,0.06237555770281317,0.046544974902766156,0.006570764404334346 GLO.0.004703932277881038.0.06858521909187895.0.049996579018796145.0.0074512575673198805 BLOOM, 0.042053914090353764, 0.20507051004557864, 0.10369141607734932, 2475475634567.023 RLC.0.007579224342571167.0.0870587407591631.0.05984216628062193.0.09443111972264119 MER, 0.006914484697945786, 0.08315338055632968, 0.056430766701572516, 0.013803759059196301 AC,0.004979648327052059,0.07056662332187973,0.05068551267808547,0.009095293073218335 PGOLD, 0.0031896313274378794, 0.05647682115202554, 0.042048119990808236, 0.011758645358492095 LTG,0.03750821267854841,0.193670371194327,0.08933890463198181,3758594209106.506 MPI,0.0055622165729049605,0.07458026932711466,0.04957733886385026,0.03681429790598718 AP,0.0025557353305988954,0.05055428103137157,0.036624170155080946,0.013458472431218822

RRHI, 0.0028975891955775315, 0.05382925966031422, 0.040626489078535964, 0.009641290779521416 URC, 0.0068894743382426505, 0.08300285741010757, 0.057194705397388856, 0.028217183434511548 PSEI, 9.232829705334228e-05, 0.009608761473433623, 0.008494095263759951, 0.0038998382619416603

Figure B.22: Raw Model Scores for Baseline 10

model baseline15.csv X

.MSE.RMSE.MAE.MAPE MEG, 0.034015743948385566, 0.18443357597895663, 0.15164354569027236, 633909811283.2087 JGS, 0.029592741877537167, 0.17202541055767653, 0.1445349665493625, 8993505239. 85993 FGEN, 0.024561083742794965, 0.15671976181322816, 0.13684348281122, 0.04888985126466148 ICT, 0.028606631454426018, 0.16913495042251325, 0.139251839245286, 961503494279.2739 ALI, 0.02492924006341544, 0.15788996188300078, 0.13549120794438474, 0.05804993752172819 $\mathsf{SMC}, 0.021793949272348297, 0.14762773883098088, 0.13474004267869616, 0.03296828985038888$ TEL, 0.0214783746770632, 0.1465550226947654, 0.1297835904754104, 0.01812192661107948 GLO,0.0229663087789239,0.15154639150743213,0.13391374503363138,0.01978636490688916 BLOOM, 0.07631830893786716, 0.2762576857534776, 0.18855400548274345, 5347063331582.995 RLC, 0.028379670384273657, 0.16846266762779716, 0.1432028414731735, 0.19419272464274054 MER, 0.0272509810000031, 0.16507871152878284, 0.1409521830313707, 0.032682665435146876LTG, 0.07658990441865482, 0.27674881105192634, 0.1774756863473615, 2504326275497.088 MPI, 0.026182659841909636, 0.161810567769567, 0.14017747870431393, 0.10104140736854278 AP,0.019192122314937974,0.13853563554168283,0.12615347917006875,0.042758910225015656 RRHI, 0.021215358356749883, 0.14565492905065, 0.13197476027457852, 0.03120428832678116 PSEI, 0.017520964135483975, 0.13236677882113765, 0.13221706472713188, 0.06066009164259066

Figure B.23: Raw Model Scores for Baseline 15

model_basetine20.csv ×

.MSE.RMSE.MAE.MAPE MEG. 0. 026776145694400132. 0. 16363418253653522. 0. 1200530791025837. 351366074670. 9161 JG5,0.023218979019200704,0.15237775106360082,0.11203671688465545,37079236101.84903 $\mathtt{BDO,0.010908683929902947,0.10444464529071343,0.08434523255132731,0.021781428827316717}$ $\mathsf{FGEN}, \textbf{0}.\, \textbf{01328404000198452}, \textbf{0}.\, \textbf{1152564098086719}, \textbf{0}.\, \textbf{09013206705640547}, \textbf{0}.\, \textbf{032225858232777696}$ ICT, 0.023345216418908073, 0.15279141474215124, 0.1113250141499374, 329061136398.89325 ALI, 0.015286408733345764, 0.12363821712296633, 0.09754795116104639, 0.04187354853357004 SNC.0.010628930207385257.0.10309670318388099.0.07783085131763114.0.018916425305997443 TEL, 0.009939364863936338, 0.0996963633435861, 0.0788610299993594, 0.01109755333457707 GL0,0.012562185108249477,0.1120811541172265,0.08280467054196113,0.012332156586357538RLC.0.020691999516582075.0.14384713941049393.0.10718897405956002.0.1199250772426462 MER, 0.01812308145308288, 0.13462199468542604, 0.09868743232128989, 0.023716153012441354 AC,0.01394238486958509,0.11807787629181468,0.089344392564019,0.01585107064231005 PGOLD, 0.010904295680437671, 0.10442363564077661, 0.0817661727419002, 0.022751911781967227 LTG,0.08067359183535965,0.28403096985251386,0.13829894362117306,1705928819526.0623 MPI,0.014631546535808101,0.12096092979060677,0.0922015670902739,0.06615668537253527 AP.0.01002913628735902.0.10014557547569947.0.08141626445268184.0.029241478007478686 $\mathsf{RRHI}, 0.008797360758064962, 0.09379424693479319, 0.07504927916672673, 0.01764922385349229, 0.0176492238534920, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.01764922385349, 0.017649249, 0.017649249, 0.017649249, 0.017649249, 0.017649249, 0.017649249, 0.01764949, 0.0176494, 0.0176444, 0.017644, 0.0$ URC, 0.01970034871975187, 0.14035793073336422, 0.10510373384399553, 0.04846541830892664 PSEI,0.004074235411641981,0.06382973767486422,0.06342811204197056,0.029093785646223835

Figure B.24: Raw Model Scores for Baseline 20

model_s5.csv ×

,MSE,RMSE,MAE,MAPE

MEG, 0.004309424873421442, 0.06564620989380454, 0.04421975007142992, 139304189558.7179 JG5,0.003308890006950838,0.05752295200136062,0.039920870940521255,200992323983.5872 BDO,0.0015994420966082207,0.039993025599574496,0.027988833139579814,0.007247630327583592 FGEN,0.002240528999740447,0.04733422651465266,0.03265112428473698,0.011974381470464668 ICT, 0.0033466528508440136, 0.05785026232303544, 0.03731193820350593, 300581835474.86523 ALI,0.0025544953299240854,0.050542015491312625,0.03645126031585048,0.01596931133193516 SMC,0.00137030869797771,0.03701768088329832,0.023174377850353648,0.005691306162396273 TEL.0.0017757163226041189.0.0421392491936451.0.030019849241503773.0.004239817355480039 GLO.0.002111310296700873.0.04594899668872948.0.03149099407019305.0.004676968507849213 BLOOM, 0.018825601880785605.0.13720642069810585.0.06900741213238494.1052898138850.6415 RLC,0.0033839823305168376,0.058172006416461496,0.03977738120052245,0.06922003880110895 MER, 0.0032586824275804447, 0.057084870391202996, 0.037700469138267696, 0.009169601650480272AC,0.0023584838369610636,0.04856422383772918,0.0341376208936506,0.006109170178242572 PGOLD,0.0014934950745029397,0.038645763991709874,0.028179754460478487,0.007879349189599448 LTG, 0.015669529634599597, 0.1251779918140549, 0.05857964135132494, 3583334717407.9917 MPI,0.00273483507602531,0.052295650641571614,0.033903050342583584,0.024971153007954654 AP,0.0012930670339860782,0.03595924128768679,0.02515073464898651,0.009217250854869657 RRHI,0.0013093195909130609,0.036184521427166355,0.026990284358758658,0.00638869156609276 URC,0.002966671813785288,0.05446716271098843,0.037421547517402926,0.017977619586139627 PSEI,1.7547831110700054e-05,0.004189013142817775,0.003282715775307006,0.001507895828047589

Figure B.25: Raw Model Scores for DMD-LSTM 5

model_s10.csv ×

MEG, 0.009865752600343098, 0.09932649495649737, 0.06737299027636771, 435734064705.6676 BDO, 0.00327995409232174, 0.05727088346028669, 0.0413452891693641, 0.010743648101452627 FGEN, 0.004617395242386965, 0.06795141825147556, 0.048889136842270545, 0.017866975592035 ICT, 0.007884621330006128, 0.08879539025200649, 0.057237276691394216, 320809756127, 44025 ALI,0.005390492967401505,0.07341997662354234,0.05328993535240997,0.023548819706954743 SNC.0.003187718406540048.0.05645988316087847.0.03586861396100476.0.00880857357236526 TEL, 0.0036866145213750832, 0.060717497654095426, 0.04474277319282044, 0.006319036216914404 GLO, 0. 004552884186453377, 0. 06747506344164025, 0. 047282846382667394, 0. 0070468257691598275, 0.BLOOM, 0.04206409341784911, 0.20509532763534402, 0.10301736984181184, 2396590596797.983 RLC, 0.007585752882284707, 0.0870962277155831, 0.059771887078320866, 0.09172759091241212 MER. Ø. 006828068233221027. Ø. 08263212591493109. Ø. 055823760181086673. Ø. 013659473951391473 AC,0.004871472887048709,0.06979593746808412,0.04979303078429352,0.008922829587183788 LTG, 0.037464440033346064, 0.19355733009458997, 0.08800307126114834, 3804223137493.905 MPI,0.005520841190178309,0.07430236328797564,0.0492521638149232,0.03649038768402956 AP.0.0026026827963171323.0.05101649533550038.0.0367471692891345.0.013583309298257755 RRHI,0.002777849936982922,0.05270531222735449,0.03922510794653118,0.009295106895914377

Figure B.26: Raw Model Scores for DMD-LSTM 10

PSEI,4.085433653393971e-05,0.00639173971105987,0.004984381407170562,0.002288420978937786

model s15.csv ×

, MSE, RMSE, MAE, MAPE

MEG, 0.015632947601103515, 0.1250317863629226, 0.08599908102247829, 282985182400.4937 BDO, 0.004860908219981323, 0.06972021385495976, 0.05080170327959182, 0.013273483429938518 FGEN, 0.0069629478504800255, 0.08344427991468334, 0.06153289935423559, 0.022449511828279718 ICT, 0.013007479593210832, 0.1140503379793801, 0.07292148376731492, 396061318234.26843 ALI, 0.00810466519619875, 0.09002591402590007, 0.066367103228538, 0.029520448994738713 TEL, 0.005439188193806359, 0.07375085215647585, 0.05519736046986012, 0.007819104873858874 GLO,0.007018476178400337,0.08377634617480245,0.05858766515961793,0.008779822537746144 RLC,0.011676685314347363,0.10805871234818303,0.07540320907116821,0.11945476091327935 MER. Ø. 010688164462570354. Ø. 10338357926948726. Ø. 07023073059770062. Ø. 01728297609360001 AC,0.007595390918192069,0.0871515399645472,0.06145688930225037,0.011039297095713095 PGOLD, 0.004859201309319683, 0.06970797163395076, 0.0512276244385843, 0.014339564237239416 $\verb+LTG, \emptyset.\, 05808674831062965, \emptyset.\, 24101192566059806, \emptyset.\, 10807781590206503, 2316692766061.9355$ MPI,0.008080401796946723,0.0898910551553753,0.06020282472442268,0.04473013446882734 AP,0.0038632369071855297,0.06215494274139049,0.04434230453119878,0.016505958531928256 RRHI,0.004132716283832857,0.06428620601523205,0.04803456414328379,0.011401074357359176 URC,0.010867588278427435,0.10424772553119534,0.07207244516575859,0.036246928116491314 PSEI, 3.912591469048572e-05, 0.006255071117939885, 0.004142081727067567, 0.0019046016464762977

Figure B.27: Raw Model Scores for DMD-LSTM 15

model_s20.csv ×

.MSE.RMSE.MAE.MAPE ${\tt MEG, 0.022323896742406167, 0.14941183601845662, 0.10290009425682627, 266729753264.34708}$ JGS,0.018713341878839475,0.13679671735403404,0.09445716160359285,33462393302.143425 BDO, 0.006756430654995097, 0.08219751002916753, 0.060170842223956744, 0.015760545579428267 FGEN, 0.009597141213378582, 0.09796499994068587, 0.07234479676026784, 0.026376477197220943 ICT. 0.01852442554536271.0.13610446555996136.0.0884036204475373.501915336431.2399 ALI,0.011079138682075038,0.10525748753449816,0.07817609171626877,0.034775151593376956 $\mathsf{SNC}, 0.007048757669965641, 0.08395687982509617, 0.0546836838155754, 0.013374177511788293$ TEL, 0.007329064462734207, 0.08560995539500185, 0.06517997383340782, 0.009244621847414265 BLOOM, 0.08238165998516955, 0.28702205487587457, 0.1577616055528068, 3419715539589.91 RLC, 0.01615196335933326, 0.1270903747706067, 0.08988687939937239, 0.12828506623288913 MER, 0.01468617694758008, 0.12118653781497382, 0.08247620417598935, 0.020392816829558198 AC,0.010767353439365156,0.10376585873670181,0.07244617014525238,0.013014703427266284 LTG, 0.07756279210367704, 0.2785009732544521, 0.12605638618291093, 1762772789831.8323 MPI,0.010612065609680215,0.1030148805254863,0.06982793923155896,0.05185919561554108 AP,0.0052532780558852705,0.07247950093568023,0.05175236778740295,0.019295214734668182 RRHI, 0.0054869934800239875, 0.07407424302700627, 0.0564675805420636, 0.013389493057254155 URC. 0.015310641590353787. 0.12373617737086348. 0.0868352222276058. 0.04379474785289333 PSEI,7.322582229059844e-05,0.00855720879087325,0.006455499639920296,0.0029648261136105067

Figure B.28: Raw Model Scores for DMD-LSTM 20

B.3 Model Testing Raw Test Results for DMD-LSTM

The graphs below show the performance of the different DMD-LSTM models trained in the conduct of this special problem based on the test data split of PSEI.

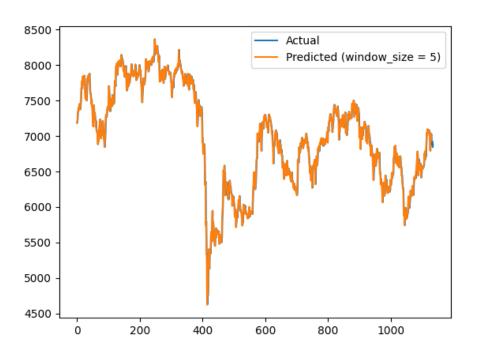


Figure B.29: Actual vs Predicted Closing Prices for DMD-LSTM 5 (Using Train Data from PSEI)

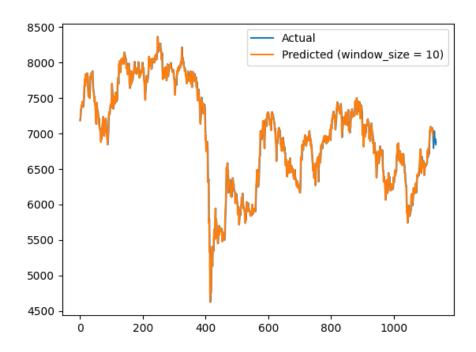


Figure B.30: Actual vs Predicted Closing Prices for DMD-LSTM 10 (Using Train Data from PSEI)

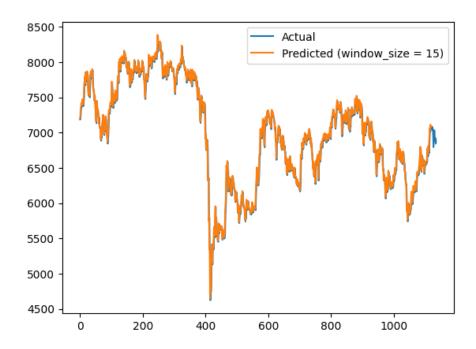


Figure B.31: Actual vs Predicted Closing Prices for DMD-LSTM 15 (Using Train Data from PSEI)

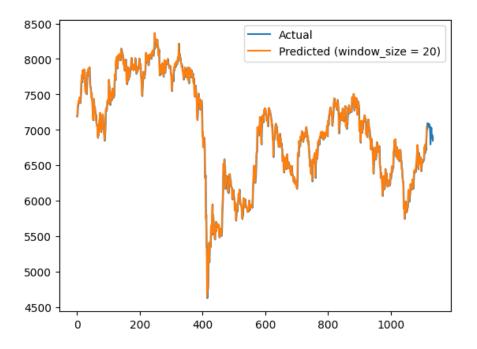


Figure B.32: Actual vs Predicted Closing Prices for DMD-LSTM 20 (Using Train Data from PSEI)

B.4 Daily Return Distribution of the Different Stocks

Figures below show the daily return distribution of each stock, which was used to calculate each stock's risk profile.

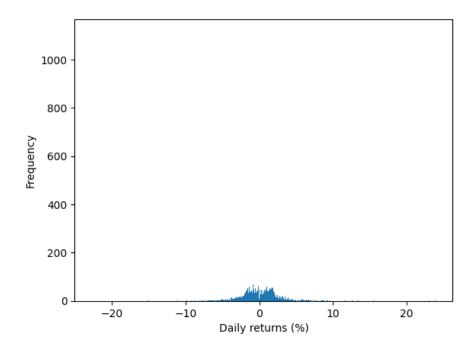


Figure B.33: Daily Return Distribution of AC

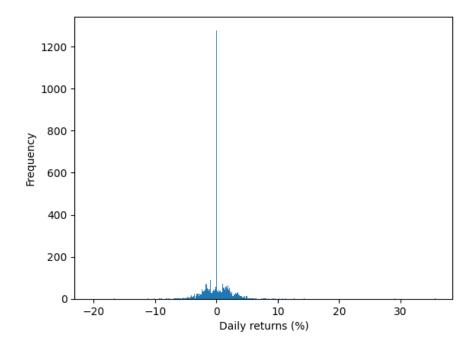


Figure B.34: Opening, High, Low, and Closing Prices for ALI

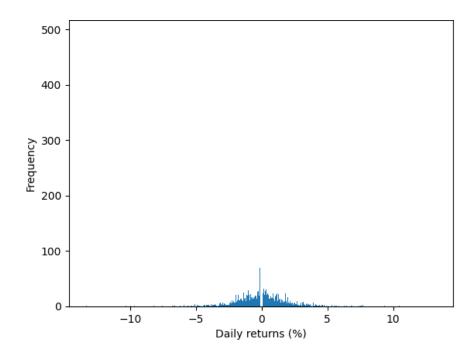


Figure B.35: Opening, High, Low, and Closing Prices for AP

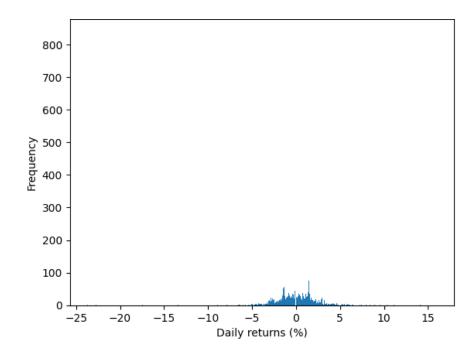


Figure B.36: Opening, High, Low, and Closing Prices for BDO

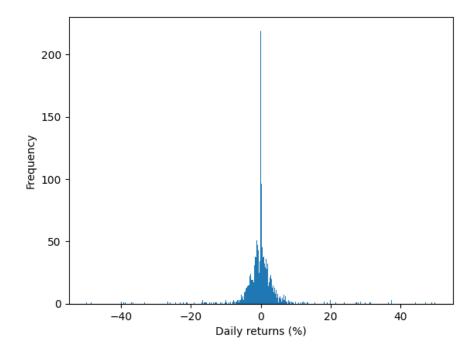


Figure B.37: Opening, High, Low, and Closing Prices for BLOOM

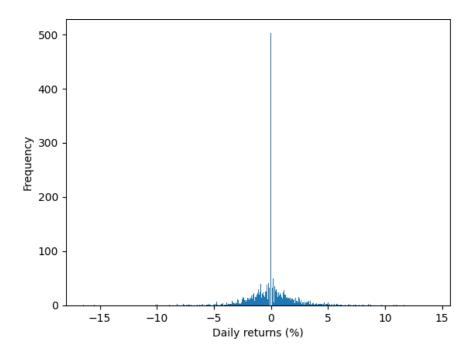


Figure B.38: Opening, High, Low, and Closing Prices for FGEN

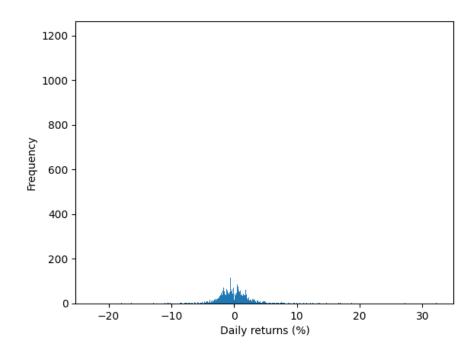


Figure B.39: Opening, High, Low, and Closing Prices for GLO

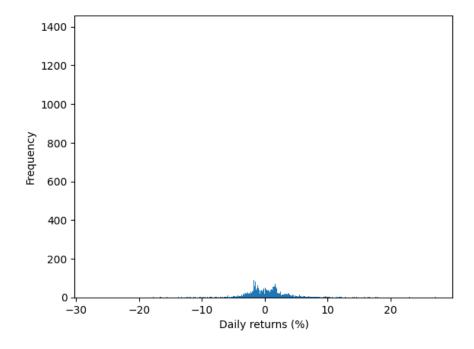


Figure B.40: Opening, High, Low, and Closing Prices for ICT

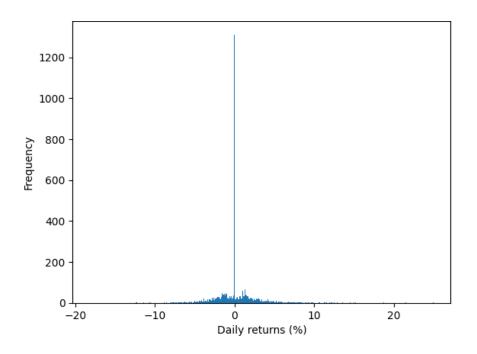


Figure B.41: Daily Return Distribution of JGS

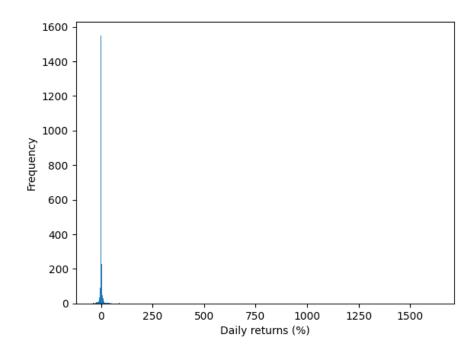


Figure B.42: Daily Return Distribution of LTG

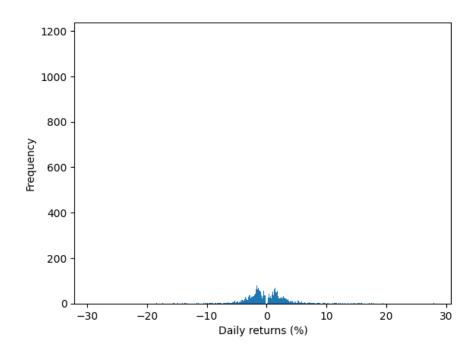


Figure B.43: Daily Return Distribution of MEG

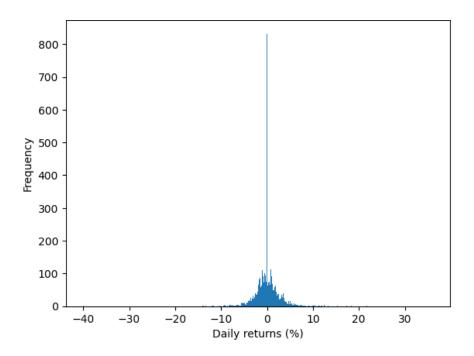


Figure B.44: Daily Return Distribution of MER

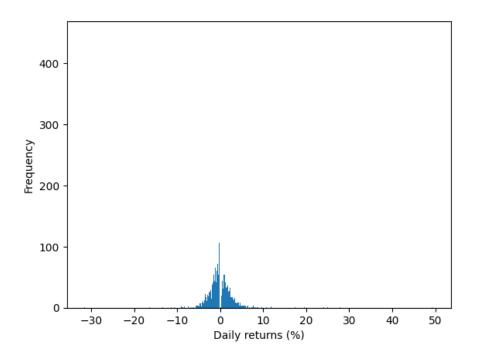


Figure B.45: Daily Return Distribution of MPI

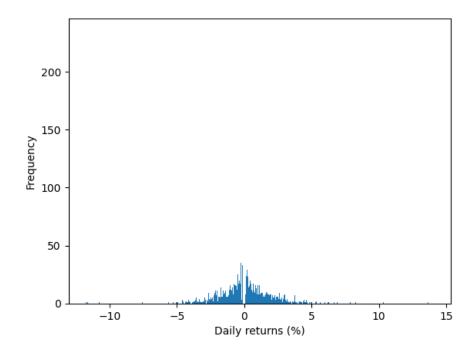


Figure B.46: Daily Return Distribution of PGOLD

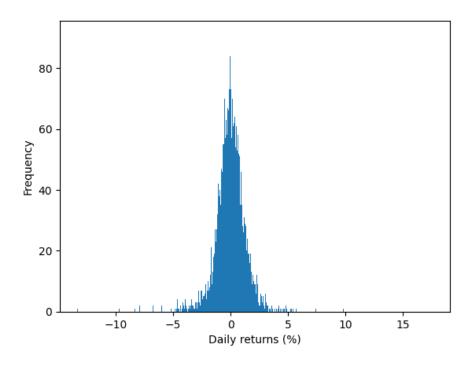


Figure B.47: Daily Return Distribution of PSEI

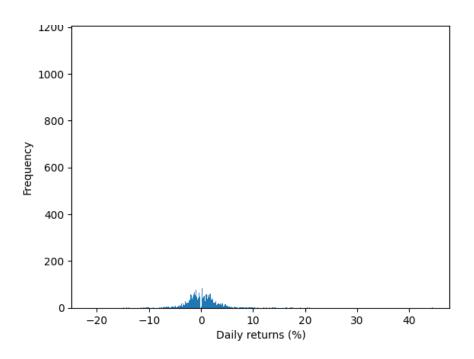


Figure B.48: Daily Return Distribution of RLC

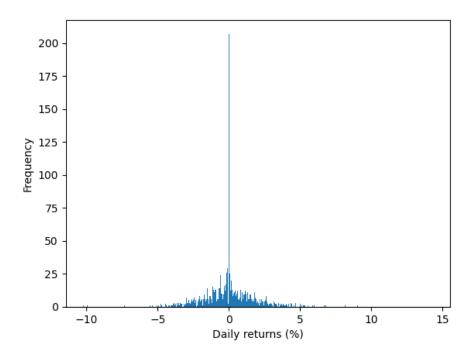


Figure B.49: Daily Return Distribution of RRHI

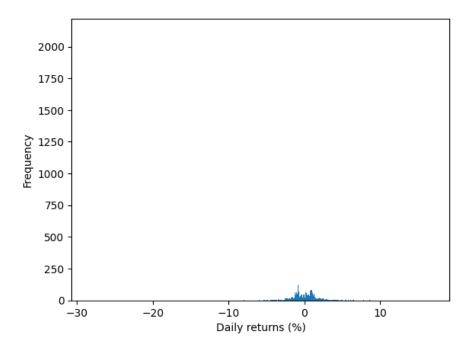


Figure B.50: Daily Return Distribution of SMC

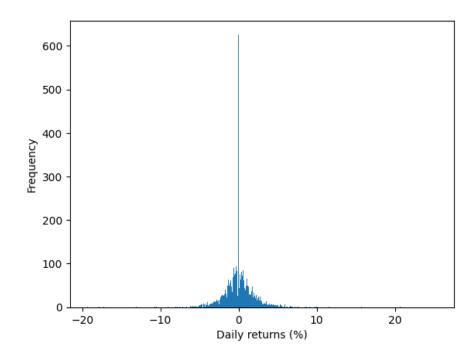


Figure B.51: Daily Return Distribution of TEL

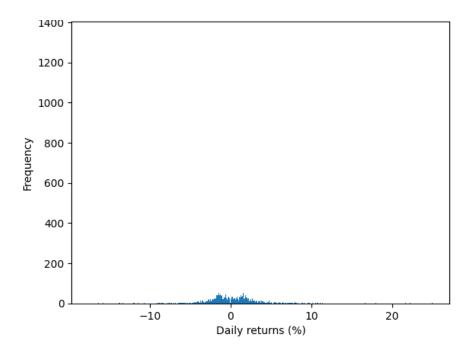


Figure B.52: Daily Return Distribution of URC

| stock | value_at_risk% | volatility% | drawdown% | start_date | end_date |
|-------|--------------------|-------------|--------------------|------------|------------|
| MEG | -5.3 65 715 | 3.949969 | 57.248140 | 2000-01-03 | 2023-02-10 |
| JGS | -4.762357 | 3.361099 | 43.184044 | 2000-01-03 | 2023-02-10 |
| BDO | -3.302488 | 2.364049 | 39.670648 | 2000-01-03 | 2023-02-10 |
| FGEN | -3.819079 | 2.559254 | 30.604259 | 2000-01-03 | 2023-02-10 |
| ICT | -4.827050 | 3.520840 | 54.645013 | 2000-01-03 | 2023-02-10 |
| ALI | -4.390485 | 3.070487 | 56.026166 | 2000-01-03 | 2023-02-10 |
| SMC | -3.403674 | 2.385956 | 45.2 98 783 | 2000-01-03 | 2023-02-10 |
| TEL | -3.693763 | 2.460023 | 44.659116 | 2000-01-03 | 2023-02-10 |
| GLO | -4.120044 | 3.092601 | 54.758065 | 2000-01-03 | 2023-02-10 |
| 3LOOM | -5.984996 | 7.061554 | 100.000000 | 2000-01-03 | 2023-02-10 |
| RLC | -4.529364 | 3.416989 | 65.982906 | 2000-01-03 | 2023-02-10 |
| MER | -4.498595 | 3.254736 | 76.000028 | 2000-01-03 | 2023-02-10 |
| AC | -4.290654 | 2.796171 | 46.688827 | 2000-01-03 | 2023-02-10 |
| PGOLD | -3.114919 | 2.134819 | 25.7 99 794 | 2000-01-03 | 2023-02-10 |
| LTG | -6.153221 | 31.223317 | 1667.806911 | 2000-01-03 | 2023-02-10 |
| MPI | -4.055836 | 3.499676 | 81 .132519 | 2000-01-03 | 2023-02-10 |
| AP | -3.197641 | 2.187289 | 26.540881 | 2000-01-03 | 2023-02-10 |
| RRHI | -3.032063 | 2.053932 | 24.509668 | 2000-01-03 | 2023-02-10 |
| URC | -4.532392 | 3.199716 | 42.542617 | 2000-01-03 | 2023-02-10 |
| PSEI | -1.887800 | 1.318818 | 30.903657 | 2000-01-03 | 2023-02-10 |

Figure B.53: Raw Risk Profile Scores

B.5 Raw alamSYS Test Data

This section is divided into three sections: raw system logs, PSEI trading baseline data, and raw real-world alamSYS application.

B.5.1 Raw System Logs

| ≡ stats. | txt × | | | | | | | |
|--|--|--|---|---|---|---|--|--|
| 1 | CONTAINER ID | MAPE | CPU % | MEM USAGE / LIMIT | HER % | MET I/O | BLOCK I/O | PII |
| 2 | d878d6975a9c | alamDB | 0.23% | 159MiB / 7.684GiB | 2.62% | 9.55kB / 9.65kB | 55.5PB / 680kB | |
| 3 | 00b3dc1eb4ce | alamAPI | 0.17% | 45.7MiB / 7.684GiB | 0.58% | 9.07kB / 5.64kB | 28.2PB / 0B | 3 |
| 4 | 47dba53c6237 | alamPREPROCESSOR | 0.01% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 5 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH X | MET I/O | BLOCK I/O | PII |
| 6 | d878d6975a9c | alamDB | 0.20% | 159MiB / 7.684GiB | 2.02% | 9.55kB / 9.65kB | 55.5MB / 680kB | |
| 7 | 00b3dc1eb4ce | alamAPI | 0.15% | 45.7MiB / 7.684GiB | 0.58% | 9.07kB / 5.64kB | 28.2PB / 9B | 3 |
| 8 | 47dba53c6237 | alamPREPROCESSOR | 0.01% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 9 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PII |
| 10 | d878d6975a9c | alamDB | 0.19% | 159MiB / 7.684GiB | 2.62% | 9.55kB / 9.65kB | 55.5MB / 686kB | |
| 11 | 00b3dc1eb4ce | alamAPI | 0.17% | 45.7MiB / 7.684GiB | 0.58% | 9.07kB / 5.64kB | 28.2MB / 9B | 3 15 |
| 12 13 | 47dba53c6237 | alampreprocessor NAME | 0.01% CPU % | 356.7MiB / 7.684GiB | 4.53% MEN. % | 3.1kB / 2.65kB MET I/O | 283MB / 12.3kB | |
| 14 | CONTAINER ID d878d6975a9c | name alambs | 0.21% | MEM USAGE / LIMIT 159MiB / 7.684GiB | 2.62% | 9.55kB / 9.65kB | BLOCK I/O 55.5MB / 688kB | PII |
| 15 | 00b3dc1eb4ce | alamAPI | 0.16% | 45.7MiB / 7.684GiB | 9.58% | 9.07kB / 5.64kB | 28.2MB / 0B | 3 |
| 16 | 47dba53c6237 | alamPREPROCESSOR | 0.90% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 17 | CONTATNER ID | MARE | CPU X | MEM USAGE / LIMIT | 4.33A | MET I/O | BLOCK I/O | PTI |
| 18 | d878d6975a9c | alamDB | 0.26% | 159MiB / 7.684GiB | 2.02% | 9.75kB / 9.94kB | 55.5MB / 688kB | |
| 19 | 00b3dc1eb4ce | alamAPI | 9.23% | 45.7MiB / 7.684GiB | 9.58% | 9.36kB / 5.83kB | 28.29B / 9B | 3 |
| 20 | 47dba53c6237 | alamPREPROCESSOR | 9.91% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 21 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | NET 1/0 | BLOCK I/O | PII |
| 22 | d878d6975a9c | alamDR | 0.22% | 159MiB / 7.684GiB | 2.62% | 9.75kB / 9.94kB | 55.5MB / 696kB | |
| 23 | 00b3dc1eb4ce | alamAPI | 0.17% | 45.7MiB / 7.684GiB | 0.58% | 9.36kB / 5.83kB | 28.2MB / 9B | 7 |
| 24 | 47dba53c6237 | alamPREPROCESSOR | 9.91% | 356.7MIB / 7.684GIB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 25 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PII |
| 26 | d878d6975a9c | alamDB | 0.16% | 159MiB / 7.684GiB | 2.62% | 9.75kB / 9.94kB | 55.5MB / 696kB | |
| 27 | 00b3dc1eb4ce | alamAPI | 0.19% | 45.7NiB / 7.684GiB | 9.58% | 9.36kB / 5.83kB | 28.2MB / 08 | 3 |
| 28 | 47dba53c6237 | alamPREPROCESSOR | 0.13% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 29 | CONTAINER ID | NAME | CPU X | MEM USAGE / LIMIT | MER X | NET I/O | BLOCK I/O | PII |
| 30 | d878d6975a9c | alamDB | 0.21% | 159MiB / 7.684GiB | 2.02% | 9.75kB / 9.94kB | 55.5MB / 696kB | |
| 31 | 00b3dc1eb4ce | a lamAPI | 0.16% | 45.7MiB / 7.684GiB | 0.58% | 9.36kB / 5.83kB | 28.2PB / 0B | 3 |
| 32 | 47dba53c6237 | alamPREPROCESSOR | 0.01% | 356.7MIB / 7.684GIB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 33 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | NET I/O | BLOCK I/O | PI |
| 34 | d878d6975a9c | a lamDB | 9.24% | 159MiB / 7.684GiB | 2.02% | 9.75kB / 9.94kB | 55.5MB / 696kB | |
| 35 | 00b3dc1eb4ce | alamAPI | 9.17% | 45.7MiB / 7.684GiB | 9.58% | 9.36kB / 5.83kB | 28.298 / 98 | 3 |
| 36 | 47dba53c6237 | alamPREPROCESSOR | 9.91% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 37 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | NET I/O | BLOCK T/O | PII |
| 38 | d878d6975a9c | a lamDB | 0.25% | 159MiB / 7.684GiB | 2.02% | 9.94kB / 10.2kB | 55.5MB / 696kB | |
| 39 | 00b3dc1eb4ce | alamAPI | 0.21% | 45.7MiB / 7.684GiB | 9.58% | 9.65kB / 6.03kB | 28.2MB / 9B | 3 |
| 40 | 47dba53c6237 | alamPREPROCESSOR | 0.01% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 41 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | HER X | MET I/O | BLOCK I/O | PI |
| 42 | d878d6975a9c | alamDB | 0.22% | 159MiB / 7.684GiB | 2.02% | 9.94kB / 10.2kB | 55.5MB / 713kB | |
| 43 | 00b3dc1eb4ce | alamAPI | 0.16% | 45.7MiB / 7.684GiB | 0.58% | 9.65kB / 6.03kB | 28.2MB / 0B | 3 |
| 44 | | | | | | | | |
| | 47dba53c6237 | alampreprocessor | 0.01% | 356.7MiB / 7.684GiB | 4.53% | 3.1kB / 2.65kB | 283MB / 12.3kB | 15 |
| 45 | 47dba53c6237 CONTAINER ID | alampreprocessor NAME | 0.01% CPU % | 356.7MiB / 7.684GiB MEM USAGE / LIMIT | 4.53% MEM % | 3.1kB / 2.65kB MET I/O | 283MB / 12.3kB BLOCK I/O | 15 PII |
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| 45 977 | CONTAINER ID | NAME | СРU Ж | MEM USAGE / LIMIT MEM USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PII PII |
| 45 1977 1978 | CONTAINER ID d878d6975a9c | NAME NAME alanD8 | СРU X СРU X 9.17% | MEM USAGE / LIMIT MEM USAGE / LIMIT 179.5MIB / 7.684GIB | MEN % HEN % 2.28% | MET 1/0 MET 1/0 80.5kB / 114kB | BLOCK I/O BLOCK I/O 55.5MB / 6.55MB | PII PII 29 |
| 45 977 978 9 79 | CONTAINER ID CONTAINER ID d878d6975a9c B0b3dc1eb4ce | NAME NAME alamDB alamAPI | СРU X СРU X 0.17% 0.16% | MEM USAGE / LIMIT MEM USAGE / LIMIT 179.5MIB / 7.684GIB 45.73MIB / 7.684GIB | MEN % PEN % 2.28% 9.58% | MET 1/0 MET 1/0 80.5kB / 114kB 113kB / 76.4kB | BLOCK I/O BLOCK I/O 55.5MB / 6.55MB 28.2MB / 9B | PII 29 3 |
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| 45 677 678 679 686 | CONTAINER ID CONTAINER ID d878d6975a9c B0b3dc1eb4ce | NAME NAME alamDB alamAPI | СРU X СРU X 0.17% 0.16% | MEM USAGE / LIMIT MEM USAGE / LIMIT 179.5MIB / 7.684GIB 45.73MIB / 7.684GIB | MEN % PEN % 2.28% 9.58% | MET 1/0 MET 1/0 80.5kB / 114kB 113kB / 76.4kB | BLOCK I/O BLOCK I/O 55.5MB / 6.55MB 28.2MB / 9B | PIII 29 3 15 |
| 45 977 978 979 989 | CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 | NAME AlambB alamAPI alamPREPROCESSOR | CPU X 0.17% 0.16% 0.81% | MEM USAGE / LIMIT MEM USAGE / LIMIT 179.5MIB / 7.684GIB 45.73MIB / 7.684GIB 359MIB / 7.684GIB MEM USAGE / LUMIT | MEN % 2.28% 9.58% 4.56% | NET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB NET I/O | BLOCK 1/O 55.5MB / 6.55MB 28.2MB / 9B 28.3MB / 12.3kB BLOCK 1/O | PIII 29 3 15 |
| 45 977 978 979 989 981 | CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c | NAME ALAMDB ALAMAPI ALAMAPI ALAMAPE ALAMABE ALAMDB | CPU X 0.17% 0.16% 0.01% CPU X 0.20% | MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB 359MiB / 7.684GiB MEN USAGE / LIMIT 179.5MiB / 7.684GiB | MEN % 2.28% 9.58% 4.56% MEN % 2.28% | MET I/O 80.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB | BLOCK I/O 55.5MB / 6.55MB 28.2MB / 08 28.3MB / 12.3MB BLOCK I/O 55.5MB / 6.55MB | PIII 29 3 15 PIII 29 |
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| 45 977 978 979 988 981 982 983 984 985 986 987 999 991 999 999 999 999 999 99 | CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 90b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c | NAME alamAPI | CPU X 9.17X 9.16X 9.81X 9.20X 9.16X 9.16X 9.16X 9.16X 9.12X 9.14X CPU X 9.23X 9.11X CPU X 9.23X 9.11X CPU X 9.21X 9.15X 9.15X 9.15X 9.11X CPU X 9.15X 9.11X | MEN USAGE / LINIT 179.5NIB / 7.684GIB 45.73NIB / 7.684GIB 45.73NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB 359NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB 359NIB / 7.684GIB 359NIB / 7.684GIB MEN USAGE / LINIT 179.5NIB / 7.684GIB 359NIB / 7.684GIB 359NIB / 7.684GIB 359NIB / 7.684GIB | MEN X 2.28% 0.58% 4.56% MEN X 2.28% 0.58% MEN X 2.28% 0.58% MEN X 2.28% 0.58% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% MEN X 2.28% 4.56% | MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 3.38kB / 2.65kB | BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.57MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.57MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.57MB 28.2MB / 12.3kB BLOCK I/O 55.5MB / 6.57MB | PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 |
| 45 977 978 979 988 981 983 984 985 986 997 999 999 999 999 999 999 99 | CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dcteb4ce 47dba53c6237 CONTAINER ID | NAME alamAPI a | CPU X 0.17X 0.16X 0.01X 0.16X 0.16X 0.16X 0.16X CPU X 0.20X 0.16X 0.14X 0.01X CPU X 0.23X 0.15X 0.14X 0.15X 0.15X 0.15X 0.15X 0.15X 0.15X 0.15X 0.15X 0.15X | MEM USAGE / LINIT 179.5MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB | MERL X 2.28X 0.58X 4.56X 4.56X MERL X 2.28X 0.58X 4.56X MERL X 2.28X 4.56X MERL X 2.28X 4.56X MERL X 2.28X 4.56X MERL X 2.28X 4.56X MERL X 2.8X 4.56X MERL X 4.56X MERL X 4.56X MERL X 4.56X MERL X 4.56X MERL X 4.56X MERL X | MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 3.38kB / 2.65kB MET I/O 89.7kB / 114kB 114kB / 76.6kB 114kB / 76.6kB | BLOCK I/O 55.598 / 6.5548 28.788 / 98 28398 / 12.3k8 BLOCK I/O 55.598 / 6.5548 BLOCK I/O 55.598 / 6.5548 BLOCK I/O 55.598 / 6.5548 28.788 / 12.3k8 BLOCK I/O 55.598 / 6.5548 28.788 / 12.3k8 BLOCK I/O 55.598 / 6.5788 28.788 / 12.3k8 BLOCK I/O 55.598 / 6.5788 28.788 / 12.3k8 BLOCK I/O 55.598 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 28.788 / 6.5788 | PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 29 3 15 PID 3 15 |

Figure B.54: Raw Logs of Idle System Statistics

| 1 | CONTAINER ID | KAME | CPU % | MEM USAGE / LIMIT | MEH % | NET I/O | BLOCK I/O | PIDS |
|----|--------------|-------------------|--------|---------------------|-------|-----------------|-----------|------|
| 2 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 0B / 0B | 8 |
| 3 | f73c98947a50 | alamAPI2 | 2.30% | 44.24MiB / 7.684GiB | 0.56% | 60.1kB / 39.2kB | 9B / 9B | 3 |
| 4 | daf25cdfc1f2 | alamDB2 | 0.32% | 122MiB / 7.684GiB | 1.55% | 42.5kB / 57.8kB | 9B / 9B | 29 |
| 5 | CONTAINER ID | KAME | CPU % | MEH USAGE / LIMIT | MEH % | NET I/O | BLOCK I/O | PIDS |
| 6 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 68 / 68 | 8 |
| 7 | f73c98947a50 | alamAPI2 | 27.35% | 45.62MiB / 7.684GiB | 0.58% | 286kB / 273kB | 9B / 9B | 12 |
| 8 | daf25cdfc1f2 | alamDB2 | 1.54% | 122.4MiB / 7.684GiB | 1.56% | 64.8kB / 187kB | 6B / 6B | 36 |
| 9 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM X | NET I/O | BLOCK I/O | PIDS |
| 10 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 9B / 9B | 8 |
| 11 | f73c98947a50 | alamAPI2 | 31.85% | 45.65MiB / 7.684GiB | 0.58% | 531kB / 526kB | 0B / 0B | 12 |
| 12 | daf25cdfc1f2 | alamDB2 | 1.61% | 122.4MiB / 7.684GiB | 1.56% | 85.1kB / 329kB | 0B / 0B | 36 |
| 13 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM % | NET I/O | BLOCK I/O | PIDS |
| 14 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 0B / 0B | 8 |
| 15 | f73c98947a50 | alamAPI2 | 30.66% | 45.96MiB / 7.684GiB | 0.58% | 800kB / 808kB | 0B / 0B | 12 |
| 16 | daf25cdfc1f2 | alamDB2 | 1.61% | 122.4MiB / 7.684GiB | 1.56% | 108kB / 491kB | 98 / 9B | 36 |
| 17 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH X | NET I/O | BLOCK I/O | PIDS |
| 18 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 68 / 68 | 8 |
| 19 | f73c98947a50 | alamAPI2 | 24.59% | 45.96MiB / 7.684GiB | 0.58% | 1MB / 1.02MB | 9B / 9B | 12 |
| 20 | daf25cdfc1f2 | alamDB2 | 1.32% | 122.4MiB / 7.684GiB | 1.56% | 125kB / 610kB | 98 / 9B | 36 |
| 21 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIDIT | MEH X | NET I/O | BLOCK I/O | PIDS |
| 22 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 0B / 0B | 8 |
| 23 | f73c98947a50 | alamAPI2 | 28.89% | 45.96MiB / 7.684GiB | 0.58% | 1.23MB / 1.25MB | 98 / 9B | 12 |
| 24 | daf25cdfc1f2 | alamDB2 | 1.51% | 122.4MiB / 7.684GiB | 1.56% | 145kB / 744kB | 0B / 0B | 36 |
| 25 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH % | NET I/O | BLOCK I/O | PIDS |
| 26 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 9B / 9B | 8 |
| 27 | f73c98947a50 | alamAPI2 | 29.01% | 45.98MiB / 7.684GiB | 0.58% | 1.5MB / 1.54MB | 0B / 0B | 11 |
| 28 | daf25cdfc1f2 | alamDB2 | 1.72% | 122.4MiB / 7.684GiB | 1.56% | 169kB / 914kB | 0B / 0B | 36 |
| 29 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | мен Х | NET I/O | BLOCK I/O | PIDS |
| 30 | e6af858e1766 | alamPREPROCESSOR2 | 0.02% | 294.6MiB / 7.684GiB | 3.74% | 3.45kB / 2.65kB | 9B / 9B | 8 |
| 31 | f73c98947a50 | alamAPI2 | 23.69% | 45.93MiB / 7.684GiB | 0.58% | 1.68MB / 1.73MB | 9B / 9B | 11 |
| 32 | daf25cdfc1f2 | alamDB2 | 1.23% | 122.4MiB / 7.684GiB | 1.56% | 184kB / 1.02MB | 9B / 9B | 36 |
| | | | | | | | | |

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| 6988 | daf25cdfc1f2 | alamDB2 | 0.30% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 6B / 6B | 41 |
|------|--------------|-------------------|-------|---------------------|-------|-----------------|-----------|------|
| 6989 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM % | NET I/O | BLOCK I/O | PIDS |
| 6910 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 61B / 61B | 8 |
| 6911 | f73c98947a50 | alamAPI2 | 0.20% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 61B / 61B | 4 |
| 6912 | daf25cdfc1f2 | alamDB2 | 0.71% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 68 / 68 | 41 |
| 6913 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM X | NET I/O | BLOCK I/O | PIDS |
| 6914 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 6B / 6B | 8 |
| 6915 | f73c98947a50 | alamAPI2 | 0.18% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 61B / 61B | 4 |
| 6916 | daf25cdfc1f2 | alamDB2 | 0.19% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 61B / 61B | 41 |
| 6917 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH % | NET I/O | BLOCK I/O | PIDS |
| 6918 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 618 / 618 | 8 |
| 6919 | f73c98947a50 | alamAPI2 | 0.24% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 618 / 61B | 4 |
| 6920 | daf25cdfc1f2 | alamDB2 | 0.49% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 618 / 618 | 41 |
| 6921 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM X | NET I/O | BLOCK I/O | PIDS |
| 6922 | e6af858e1766 | alamPREPROCESSOR2 | 0.02% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 6B / 6B | 8 |
| 6923 | f73c98947a50 | alamAPI2 | 0.28% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 6B / 6B | 4 |
| 6924 | daf25cdfc1f2 | alamDB2 | 0.31% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 6B / 6B | 41 |
| 6925 | CONTAINER ID | NAME | CPU % | mem usage / limit | MEH X | NET I/O | BLOCK I/O | PIDS |
| 6926 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 6B / 6B | 8 |
| 6927 | f73c98947a50 | alamAPI2 | 0.25% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 68 / 68 | 4 |
| 6928 | daf25cdfc1f2 | alamDB2 | 0.28% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 618 / 61B | 41 |
| 6929 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH X | NET I/O | BLOCK I/O | PIDS |
| 6930 | e6af858e1766 | alamPREPROCESSOR2 | 0.01% | 296.6MiB / 7.684GiB | 3.77% | 3.59kB / 2.65kB | 6B / 6B | 8 |
| 6931 | f73c98947a50 | alamAPI2 | 0.18% | 45.76MiB / 7.684GiB | 0.58% | 273MB / 293MB | 9B / 9B | 4 |
| 6932 | daf25cdfc1f2 | alamDB2 | 9.46% | 145.6MiB / 7.684GiB | 1.85% | 21.2MB / 178MB | 6B / 6B | 41 |

Figure B.55: Raw Logs of Deployment System Statistics

| 1 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH X | MET I/O | BLOCK I/O | PIDS |
|----|--------------|------------------|-------|---------------------------------------|-------|-----------------|-----------------|------|
| 2 | f10bc4b28a7e | alamDB | 0.21% | 160.1MiB / 7.684GiB | 2.04% | 20.4kB / 25kB | 54.4MB / 1.99MB | 29 |
| 3 | 650af2d6431c | alamPREPROCESSOR | 1.63% | 611.4MīB / 7.684GiB | 7.77% | 96.5kB / 7.02kB | 352MB / 49.2kB | 33 |
| 4 | 8302c7cefe70 | alamAPI | 0.21% | 45.71MiB / 7.684GiB | 0.58% | 25kB / 16.1kB | 28.5MB / 0B | 3 |
| 5 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 6 | f10bc4b28a7e | alamDB | 0.26% | 160.1MiB / 7.684GiB | 2.04% | 20.4kB / 25kB | 54.4MB / 1.99MB | 29 |
| 7 | 650af2d6431c | alamPREPROCESSOR | 0.16% | 611.4MiB / 7.684GiB | 7.77% | 124kB / 8.39kB | 352MB / 49.2kB | 33 |
| 8 | 8302c7cefe70 | alamAPI | 0.26% | 45.71MīB / 7.684GiB | 0.58% | 25kB / 16.1kB | 28.5MB / 0B | 3 |
| 9 | CONTAINER ID | HAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 10 | f16bc4b28a7e | alamDB | 0.28% | 1 60.1M IB / 7. 684 GIB | 2.04% | 20.4kB / 25kB | 54.4MB / 1.99MB | 29 |
| 11 | 650af2d6431c | alamPREPROCESSOR | 0.75% | 611.4MīB / 7.684 GiB | 7.77% | 201kB / 11.7kB | 352MB / 385kB | 33 |
| 12 | 8302c7cefe70 | alamAPI | 0.19% | 45.71MiB / 7.684GiB | 0.58% | 25kB / 16.1kB | 28.5MB / 0B | 3 |
| 13 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 14 | f10bc4b28a7e | alamDB | 0.41% | 160.1MiB / 7.684GiB | 2.04% | 20.4kB / 25kB | 54.4MB / 1.99MB | 29 |
| 15 | 650af2d6431c | alamPREPROCESSOR | 2.86% | 611.5MiB / 7.684GiB | 7.77% | 266kB / 14.3kB | 352MB / 385kB | 33 |
| 16 | 8302c7cefe70 | alamAPI | 0.19% | 45.71MiB / 7.684GiB | 0.58% | 25kB / 16.1kB | 28.5MB / 0B | 3 |
| 17 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 18 | f16bc4b28a7e | alamDB | 0.69% | 160.2MiB / 7.684GiB | 2.04% | 20.6kB / 25.3kB | 54.4MB / 2.01MB | 29 |
| 19 | 650af2d6431c | alamPREPROCESSOR | 0.01% | 611.5MiB / 7.684GiB | 7.77% | 313kB / 15.4kB | 352MB / 385kB | 33 |
| 20 | 8302c7cefe70 | alamAPI | 0.22% | 45.71MiB / 7.684GiB | 0.58% | 25.3kB / 16.3kB | 28.5MB / 0B | 3 |
| 21 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 22 | f16bc4b28a7e | alamDB | 0.18% | 160.2MiB / 7.684GiB | 2.04% | 20.6kB / 25.3kB | 54.4MB / 2.01MB | 29 |
| 23 | 650af2d6431c | alamPREPROCESSOR | 0.47% | 611.5MiB / 7.684GiB | 7.77% | 355kB / 17.8kB | 352MB / 385kB | 33 |
| 24 | 8302c7cefe70 | alamAPI | 0.19% | 45.71MiB / 7.684GiB | 0.58% | 25.3kB / 16.3kB | 28.5MB / 0B | 3 |
| 25 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 26 | f16bc4b28a7e | alamDB | 0.36% | 160.1MiB / 7.684GiB | 2.04% | 20.6kB / 25.3kB | 54.4MB / 2.01MB | 29 |
| 27 | 650af2d6431c | alamPREPROCESSOR | 1.13% | 611.5MiB / 7.684GiB | 7.77% | 442kB / 21.5kB | 352MB / 385kB | 33 |
| 28 | 8302c7cefe70 | alamAPI | 0.28% | 45.71MiB / 7.684GiB | 0.58% | 25.3kB / 16.3kB | 28.5MB / 0B | 3 |
| 29 | CONTAINER ID | MAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 30 | f10bc4b28a7e | alamDB | 0.30% | 160.1MiB / 7.684GiB | 2.03% | 20.6kB / 25.3kB | 54.4MB / 2.01MB | 29 |
| 31 | 650af2d6431c | alamPREPROCESSOR | 0.91% | 611.6MiB / 7.684GiB | 7.77% | 534kB / 25.3kB | 352MB / 385kB | 33 |
| 32 | 8302c7cefe70 | alamAPI | 0.19% | 45.71MiB / 7.684GiB | 0.58% | 25.3kB / 16.3kB | 28.5MB / 0B | 3 |
| 33 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 34 | f16bc4b28a7e | alamDB | 0.26% | 160.1MiB / 7.684GiB | 2.03% | 20.6kB / 25.3kB | 54.4MB / 2.01MB | 29 |
| | | | | | | | | |

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| 9456 | 8302c7cefe70 | alamAPI | 0.18% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |
|------|---------------------------|------------------|--------|---------------------|--------|----------------|-----------------|------|
| 9457 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 9458 | f16bc4b28a7e | alamDB | 0.20% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 507kB | 54.5MB / 24.9MB | 29 |
| 9459 | 650af2d6431c | alamPREPROCESSOR | 1.56% | 1.017GiB / 7.684GiB | 13.24% | 154MB / 7.51MB | 354MB / 527MB | 33 |
| 9460 | 8302c7cefe70 | alamAPI | 0.20% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |
| 9461 | CONTAINER ID | NAME | CPU % | MEN USAGE / LINIT | MEH % | NET I/O | BLOCK I/O | PIDS |
| 9462 | f10bc4b28a7e | alamDB | 0.31% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 507kB | 54.5MB / 24.9MB | 29 |
| 9463 | 650af2d6431c | alamPREPROCESSOR | 2.17% | 1.017GiB / 7.684GiB | 13.24% | 154MB / 7.51MB | 354MB / 527MB | 33 |
| 9464 | 8302c7cefe70 | alamAPI | 0.21% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |
| 9465 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 9466 | f1 0 bc4b28a7e | alamDB | 0.27% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 508kB | 54.5MB / 24.9MB | 29 |
| 9467 | 650af2d6431c | alamPREPROCESSOR | 0.40% | 1.017GiB / 7.684GiB | 13.24% | 154MB / 7.52MB | 354MB / 527MB | 33 |
| 9468 | 8302c7cefe70 | alamAPI | 0.26% | 45.73MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |
| 9469 | CONTAINER ID | HAME | CPU % | MEM USAGE / LIMIT | MEH % | NET I/O | BLOCK I/O | PIDS |
| 9470 | f10bc4b28a7e | alamDB | 0.14% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 508kB | 54.5MB / 24.9MB | 29 |
| 9471 | 650af2d6431c | alamPREPROCESSOR | 98.62% | 1.041GiB / 7.684GiB | 13.54% | 154MB / 7.52MB | 354MB / 528MB | 51 |
| 9472 | 8302c7ceFe70 | alamAPI | 0.10% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |
| 9473 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 9474 | f10bc4b28a7e | alamDB | 0.15% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 508kB | 54.5MB / 24.9MB | 29 |
| 9475 | 650af2d6431c | alamPREPROCESSOR | 98.68% | 1.054GiB / 7.684GiB | 13.71% | 154MB / 7.52MB | 354MB / 528MB | 51 |
| 9476 | 8302c7cefe70 | alamAPI | 0.10% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 6B | 3 |
| 9477 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | NET I/O | BLOCK I/O | PIDS |
| 9478 | f10bc4b28a7e | alamDB | 0.19% | 192MiB / 7.684GiB | 2.44% | 1.13MB / 508kB | 54.5MB / 24.9MB | 29 |
| 9479 | 650af2d6431c | alamPREPROCESSOR | 98.17% | 1.065GiB / 7.684GiB | 13.86% | 154MB / 7.52MB | 354MB / 528MB | 51 |
| 9480 | 8302c7cefe70 | alamAPT | 0.14% | 45.72MiB / 7.684GiB | 0.58% | 165kB / 111kB | 28.5MB / 0B | 3 |

Figure B.56: Raw Logs of Data Collector Module (DCM) System Statistics

| | CONTATNED TO | | cm. • | WENT LICENSE A LITHER | | NET 1/0 | DLOCK TIO | BTDC |
|--|--|---|--|---|--|--|---|--|
| 1 | CONTAINER ID | NAME -1 | CPU % 0.15% | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 2 3 | f10bc4b28a7e 650af2d6431c | alamDB alamPREPROCESSOR | 98.18% | 192MiB / 7.684GiB 1.055GiB / 7.684GiB | 2.44% 13.73% | 1.23MB / 623kB 154MB / 7.54MB | 54.5MB / 33.2MB 354MB / 528MB | 29 51 |
| 4 | | alamAPT | | - | 0.58% | | - | 3 |
| 5 | 8302c7cefe70 CONTAINER ID | ATAMPAT | 0.10% CPU % | 45.91MiB / 7.684GiB MEM USAGE / LIMIT | MEN % | 275kB / 192kB MET I/O | 28.5MB / 0B BLOCK I/O | PIDS |
| 6 | f10bc4b28a7e | alamDB | 9.14% | 192MiB / 7.684GiB | 2.44% | 1.23MB / 623kB | 54.5MB / 33.2MB | 29 29 |
| 7 | 650af2d6431c | alamPREPROCESSOR | 97.02% | 1.063GiB / 7.684GiB | 2.44% 13.84% | 1.23AB / 0.23KB | 354MB / 528MB | 51 |
| 8 | 8302c7cefe70 | alampreprocessor alamAPI | 97.024 | | 0.58% | | | 3. |
| 9 | | NVME STSWALT | | 45.91MiB / 7.684GiB | 0.56A | 275kB / 192kB | 28.5MB / 6B | _ |
| 10 | CONTAINER ID f10bc4b28a7e | alamDB | CPU % 0.16% | MEM USAGE / LIMIT 192MiB / 7.684GiB | 7.44% | MET I/O 1.23MB / 624kB | BLOCK 1/0 54.5MB / 33.2MB | PIDS 29 |
| 11 | 650af2d6431c | alamPREPROCESSOR | 98.16% | 1.075GiB / 7.684GiB | 14.00% | 1.23AB / 7.54MB | 354MB / 528MB | 59 |
| 12 | 8302c7cefe70 | alamPREPROCESSOR alamAPI | 98.16% | 45.91MiB / 7.684GiB | 0.58% | | 28.5MB / 9/8 | 3 |
| 13 | CONTAINER ID | ATAMEN'T | CPU % | MEM USAGE / LIMIT | MEH X | 275kB / 192kB NET I/O | BLOCK I/O | o PIDS |
| 14 | f16bc4b28a7e | alamin | 9.21% | 192MiB / 7.684GiB | 2 44% | | | 2Q P1D5 |
| 15 | 650af2d6431c | alamPREPROCESSOR | 168.69% | 930.9MiB / 7.684GiB | 11.83% | 1.24MB / 627kB 154MB / 7.55MB | 54.5MB / 33.2MB 354MB / 528MB | 26 |
| 16 | 8302c7cefe70 | alamAPI | 9.12% | 45.91MiB / 7.684GiB | 0.58% | 275kB / 192kB | 28.5MB / 6B | 3 |
| 17 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEH X | MET I/O | BLOCK I/O | PIDS |
| 18 | f10bc4b28a7e | alamD8 | 9.16% | 192MiB / 7.684GiB | 2.44% | 1.24MB / 627kB | 54.5MB / 33.2MB | 29 |
| 19 | 650af2d6431c | alamPREPROCESSOR | 122.66X | 1.058GiB / 7.684GiB | 13.77% | 1.24HB / 7.55HB | 354MB / 528MB | 51 |
| 20 | 8302c7cefe70 | alamAPT | 9.11% | 45.91MiB / 7.684GiB | 0.58% | 275kB / 192kB | 28.5MB / 9B | 3. |
| 21 | CONTAINER ID | NAME | CPU % | MEN USAGE / LIMIT | MEH % | MET I/O | BLOCK I/O | PIDS |
| 22 | f10bc4b28a7e | alamDB | 9.16% | 192MiB / 7.684GiB | 2.44% | 1.24MB / 627kB | 54.5MB / 33.2MB | 29 |
| 23 | 650af2d6431c | alamPREPROCESSOR | 98.37% | 1.071GiB / 7.684GiB | 13.94% | 154MB / 7.55MB | 354MB / 528MB | 62 |
| 24 | 8302c7cefe70 | alamAPI | 9.10% | 45.91MiB / 7.684GiB | 0.58% | 275kB / 192kB | 28.5MB / 9B | 3 |
| 25 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | WEN 2 | MET I/O | BLOCK I/O | PTDS |
| 26 | f19bc4b28a7e | alamOB | 0.14% | 192MiB / 7.684GiB | 2.44% | 1.24MB / 627kB | 54.5MB / 33.2MB | 29 |
| 27 | 650af2d6431c | alamPREPROCESSOR | 96.23% | 1.0836iB / 7.6846iB | 14.09% | 154MB / 7.55MB | 354MB / 528MB | 59 |
| 28 | 8302c7cefe70 | alamAPI | 9.13% | 45.91MiB / 7.684GiB | 0.58% | 275kB / 192kB | 28.5MB / 6B | 3 |
| 29 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PIDS |
| 30 | f10bc4b28a7e | alamDR | 0.38% | 192MiB / 7.684GiB | 2.44% | 1.25MB / 631kB | 54.5MB / 33.3MB | 29 |
| 31 | 650af2d6431c | alamPREPROCESSOR | 162.19% | 921.1MiB / 7.684GiB | 11.71% | 154MB / 7.56MB | 354MB / 528MB | 26 |
| 32 | 8302c7cefe70 | alamAPI | 0.21% | 45.91MiB / 7.684GiB | 0.58% | 275kB / 192kB | 28.5MB / 6MB | 3 |
| | | | | - | | - | - | |
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| 1632 | 83 6 2c7cefe7 0 | alamAPI | 0.13X | • • • • • • • • • • • • • • • • • • • | 0.58 % | 299kB / 288kB | 28.5MB / GB | 3 |
| 16 33 | CONTAINER ID | NAME | CPU % | MEN USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 1633 1634 | CONTAINER ID f16bc4b28a7e | NAME alamob | CPU % 0.12% | MEM USAGE / LIMIT 189.7MiB / 7.684GiB | MEH % 2.41% | MET I/O 2.25MB / 987kB | BLOCK I/O 54.5MB / 38.1MB | PIDS 29 |
| 1633 1634 1635 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c | NAME alamDB alamPREPROCESSOR | CPU % 0.12% 96.58% | MEM USAGE / LIMIT 189.7MiB / 7.684GiB 1.3GiB / 7.684GiB | MEN % 2.41% 16.92% | NET 1/0 2.25MB / 987kB 154MB / 8.55MB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB | PIDS 29 51 |
| 1633 1634 1635 1636 | CONTAINER ID f10bc4b28a7e 650af2d6431c 8302c7cefe70 | NAME alamD8 alamPREPROCESSOR alamAPI | CPU % 0.12% 96.58% 0.10% | MEM USAGE / LIMIT 189.7MiB / 7.684GiB 1.3GiB / 7.684GiB 45.7MiB / 7.684GiB | MEN % 2.41% 16.92% 0.58% | MET 1/0 2.25MB / 987kB 154MB / 8.55MB 299kB / 288kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 530MB 28.5MB / 6B | PIDS 29 51 3 |
| 1633 1634 1635 1636 1637 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID | NAME alamDB alamPREPROCESSOR alamAPI NAME | CPU % 0.12% 96.58% 0.10% CPU % | MEN USAGE / LIMIT 189.7MiB / 7.684GiB 1.3GiB / 7.684GiB 45.7MiB / 7.684GiB MEN USAGE / LIMIT | MEM % 2.41% 16.92% 0.58% MEM % | MET I/O 2.25MB / 987kB 154MB / 8.55MB 299kB / 268kB MET I/O | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 6B BLOCK I/O | PIDS 29 51 3 PIDS |
| 1633 1634 1635 1636 1637 1638 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID f1@bc4b28a7e | NAME alamDB alamPREPROCESSOR alamAPI NAME alamDB | CPU X 9.12% 96.58% 9.10% CPU X 9.16% | MEN USAGE / LIMIT 189.7MiB / 7.684GiB 1.3GiB / 7.684GiB 45.7MiB / 7.684GiB MEN USAGE / LIMIT 189.7MiB / 7.684GiB | MEH % 2.41% 16.92% 9.58% MEH % 2.41% | MET I/O 2.25MB / 987kB 154MB / 8.55MB 299kB / 268kB MET I/O 2.26MB / 990kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 6B BLOCK I/O 54.5MB / 38.1MB | PIDS 29 51 3 PIDS 29 |
| 1633 1634 1635 1636 1637 1638 1639 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID f1@bc4b28a7e 65@af2d6431c | NAME alamOB alamPREPROCESSOR alamAPI NAME alamOB alamPREPROCESSOR | CPU % 9.12% 96.58% 9.10% CPU % 9.16% 177.58% | MEM USAGE / LIMIT 189.7MIB / 7.684GIB 1.3GIB / 7.684GIB 45.7MIB / 7.684GIB MEM USAGE / LIMIT 189.7MIB / 7.684GIB 1.168GIB / 7.684GIB | MEH % 2.41% 16.92% 0.58% MEH % 2.41% 15.28% | NET I/O 2.25MB / 987kB 154MB / 8.55MB 299kB / 268kB MET I/O 2.26MB / 990kB 154MB / 8.56MB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB | PIDS 29 51 3 PIDS 29 26 |
| 1633 1634 1635 1636 1637 1638 1639 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ | NAME alamDB alamPREPROCESSOR alamAPI NAME alamDB alamDB alamPREPROCESSOR alamAPI | CPU % 9.12% 96.58% 9.10% CPU % 9.16% 177.56% 9.12% | MEM USAGE / LIMIT 189, 7MTB / 7.684618 1.3618 / 7.684618 45.7M1B / 7.684618 MEM USAGE / LIMIT 189, 7MTB / 7.684618 1.168618 / 7.684618 45.7M1B / 7.684618 | MEH % 2.41% 16.92% 0.58% MEH % 2.41% 15.20% 0.58% | MET I/O 2.25/MB / 987kB 154/MB / 8.55/MB 299kB / 268kB MET I/O 2.26/MB / 996kB 154/MB / 8.56/MB 299kB / 268kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 08 BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 08 | PIDS 29 51 3 PIDS 29 26 3 |
| 1633 1634 1635 1636 1637 1638 1639 1640 | CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID f1@bc4b28a7e 65@af2d6431c 83@2c7cefe7@ CONTAINER ID | NAME alamba alampreprocessor alamapt NAME alamba alamba alamba alamapt NAME | CPU X 0.12X 96.58X 0.10X CPU X 0.16X 177.56X 0.12X CPU X | MEM USAGE / LIMIT 189. 7MTB / 7.684G18 1.3G18 / 7.684G18 45.7M18 / 7.684G18 MEM USAGE / LIMIT 189. 7MTB / 7.684G18 1.168G18 / 7.684G18 45.7M18 / 7.684G18 MEM USAGE / LIMIT | MEM % 2.41% 16.92% 0.58% MEM % 2.41% 15.20% 0.58% MEM % | MET I/O 2.25MB / 987kB 154MB / 8.55MB 299kB / 268kB MET I/O 2.26MB / 990kB 154MB / 8.56MB 299kB / 268kB MET I/O | BLOCK I/O 54.5MB / 38.1MB 356MB / 536MB 28.5MB / 6B BLOCK I/O 54.5MB / 38.1MB 356MB / 536MB 28.5MB / 6B BLOCK I/O | PIDS 29 51 3 PIDS 29 26 3 PIDS |
| 1633 1634 1635 1636 1637 1638 1639 1640 1641 | CONTAINER ID f16bc4b28a7e 658af2d6431c 8362c7cefe70 CONTAINER ID f16bc4b28a7e 658af2d6431c 8362c7cefe70 CONTAINER ID f16bc4b28a7e | NAME alamDB alamPREPROCESSOR alamAPI NAME alamDB alamDB alamAPI NAME alamAPI NAME alamAPI alamDB | CPU % 0.12% 96.58% 0.10% CPU % 0.16% 177.56% 0.12% CPU % 0.37% | MEM USAGE / LIMIT 189. 7MTB / 7.684G1B 1.3G1B / 7.684G1B 45.7M1B / 7.684G1B MEM USAGE / LIMIT 189. 7M1B / 7.684G1B 1.168G1B / 7.684G1B 45.7M1B / 7.684G1B MEM USAGE / LIMIT 189. 7M1B / 7.684G1B | MEM % 2.41% 16.92% 0.58% MEM % 2.41% 15.20% 0.58% MEM % 2.41% 15.20% 0.58% MEM % 2.41% | MET I/O 2.25MB / 987kB 154MB / 8.55MB 299kB / 268kB MET I/O 2.26MB / 996kB 154MB / 8.56MB 299kB / 268kB MET I/O 2.26MB / 996kB | BLOCK I/O 54.5/BB / 38.1/BB 356/BB / 538/MB 28.5/MB / 6/B BLOCK I/O 54.5/MB / 38.1/MB 356/MB / 538/MB 28.5/MB / 6/B BLOCK I/O 54.5/MB / 38.1/MB | PIDS 29 51 3 PIDS 29 26 3 PIDS 29 |
| 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 | CONTAINER ID f16bc4b28a7e 650af2d6431c 8302c7cefe70 CONTAINER ID f16bc4b28a7e 650af2d6431c 8302c7cefe70 CONTAINER ID f16bc4b28a7e 650af2d6431c | NAME alamD8 alamPREPROCESSOR alamAPI NAME alamD8 alamPREPROCESSOR alamAPI NAME alamD8 alamD8 alamD8 | CPU % 0.12% 96.58% 0.10% CPU % 0.16% 177.56% 0.12% CPU % 0.37% 99.58% | MEM USAGE / LIMIT 189. 7MTB / 7.684G18 1.3G18 / 7.684G18 45.7M1B / 7.684G18 MEM USAGE / LIMIT 189. 7MTB / 7.684G18 1.1684G18 / 7.684G18 MEM USAGE / LIMIT 189. 7MTB / 7.684G18 1.284G18 / 7.684G18 | MEM % 2.41% 16.92% 0.58% MEM % 2.41% 15.20% 0.58% MEM % 2.41% 16.71% | MET I/O 2.25/B / 987kB 154MB / 8.55/MB 299kB / 268kB MET I/O 2.26/MB / 990kB 154MB / 8.56/MB 299kB / 268kB MET I/O 2.26/MB / 990kB 154MB / 980kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 530MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 530MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 530MB | PIDS 29 51 3 PIDS 29 26 3 PIDS 29 51 |
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| 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 | CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID f16bc4b28a7e 659af2d6431c 8392c7cefe70 CONTAINER ID | NAME alampreprocessor alamapi NAME alambe alampreprocessor alamapi NAME alambe alampreprocessor alamapi NAME alampreprocessor alamapi NAME alampreprocessor alamapi NAME alampreprocessor alamapi NAME alampreprocessor alamapi NAME alampreprocessor alamapi NAME | CPU X 0.12X 96.58X 96.58X 0.16X CPU X 0.16X CPU X 0.16X CPU X 0.12X CPU X 0.15X CPU X 0.17X 99.58X 0.19X 0.16X CPU X 0.16X CPU X 0.16X CPU X 0.16X CPU X 0.16X CPU | MEM USAGE / LIMIT 189.7MIB / 7.684GIB 1.3GIB / 7.684GIB 45.7MIB / 7.684GIB MEM USAGE / LIMIT 189.7MIB / 7.684GIB 1.1584GIB / 7.684GIB MEM USAGE / LIMIT 189.7MIB / 7.684GIB MEM USAGE / LIMIT 189.7MIB / 7.684GIB 1.284GIB / 7.684GIB 1.284GIB / 7.684GIB 1.294GIB / 7.684GIB 1.294GIB / 7.684GIB 1.294GIB / 7.684GIB 1.294GIB / 7.684GIB 1.294GIB / 7.684GIB 1.291GIB / 7.684GIB 1.391GIB / 7.684GIB 1.391GIB / 7.684GIB 1.391GIB / 7.684GIB 1.391GIB / 7.684GIB | MEN X 2.41X 16.92X 16.92X MEN X 2.41X 15.20X 0.58X MEN X 2.41X 16.71X 0.58X MEN X 2.41X 16.84X 0.58X MEN X 2.41X 16.93X 0.58X MEN X | MET I/O 2.25/BB / 987kB 154/BB / 8.55/BB 299kB / 268kB MET I/O 2.26/BB / 990kB 154/BB / 8.56/BB 299kB / 268kB MET I/O 2.26/BB / 990kB 154/BB / 8.56/BB 299kB / 268kB MET I/O 2.26/BB / 991kB 154/BB / 8.56/BB 299kB / 268kB MET I/O 2.26/BB / 991kB 154/BB / 8.56/BB 299kB / 268kB MET I/O 2.26/BB / 991kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.2MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.2MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.3MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.3MB 356MB / 538MB 28.5MB / 68 BLOCK I/O | PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 51 51 51 51 51 51 51 51 51 51 51 51 |
| 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1659 1650 1651 1652 | CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e 659af2d6431c 8302c7cefe70 CONTAINER ID f18bc4b28a7e | NAME alampreprocessor alamapt NAME alampreprocessor alamapt NAME alamba alampreprocessor alamapt NAME alamba alampreprocessor alamapt NAME alamba alampreprocessor alamapt ALAMPE alamba alampreprocessor alamapt NAME alamba alampreprocessor alamapt NAME alamba alampreprocessor alamapt NAME alamba alampreprocessor alamapt NAME alamba | CPU X 0.12X 96.58X 0.16X CPU X 0.16X CPU X 0.12X CPU X 0.37X 0.37X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.15X CPU X 0.16X CPU X | MEM USAGE / LIMIT 189. 7MTB / 7.684G1B 1.3G1B / 7.684G1B 45.7M1B / 7.684G1B MEM USAGE / LIMIT 189. 7MTB / 7.684G1B MEM USAGE / LIMIT 189. 7MTB / 7.684G1B MEM USAGE / LIMIT 189. 7MTB / 7.684G1B 1.284G1B / 7.684G1B 1.284G1B / 7.684G1B MEM USAGE / LIMIT 189. 7MTB / 7.684G1B 1.294G1B / 7.684G1B 1.294G1B / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B 1.391GTB / 7.684G1B | MEN X 2.41X 16.92X MEN X 2.41X 15.26X 0.58X MEN X 2.41X 16.71X 0.58X MEN X 2.41X 16.84X 0.58X MEN X 2.41X 16.93X 0.58X MEN X 2.41X 2.41X 2.41X 2.41X 2.41X | MET I/O 2.25/BB / 987k8 154/BB / 8.55/BB 299kB / 288kB MET I/O 2.26/BB / 999kB 299kB / 288kB MET I/O 2.26/BB / 999kB 154/BB / 8.56/BB 299kB / 288kB MET I/O 2.26/BB / 999kB 154/BB / 8.56/BB 299kB / 288kB MET I/O 2.26/BB / 991kB 154/BB / 8.56/BB 299kB / 288kB MET I/O 2.26/BB / 991kB | BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.1MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.2MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.3MB 356MB / 538MB 28.5MB / 68 BLOCK I/O 54.5MB / 38.3MB | PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 51 3 PIDS 29 52 51 3 PIDS 29 51 3 PI |
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Figure B.57: Raw Logs of Data Processor Module (DPM) System Statistics

| 1 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
|----|--------------|------------------|-------|---------------------|--------|----------------|-----------------|------|
| 2 | f10bc4b28a7e | alamDB | 0.22% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 3 | 650af2d6431c | alamPREPROCESSOR | 2.60% | 1.303GiB / 7.684GiB | 16.96% | 156MB / 8.65MB | 356MB / 536MB | 53 |
| 4 | 8302c7cefe70 | alamAPI | 0.17% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 5 | CONTAINER ID | NAME | CPU % | MEN USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PIDS |
| 6 | f10bc4b28a7e | alamDB | 0.22% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 7 | 650af2d6431c | alamPREPROCESSOR | 3.44% | 1.303GIB / 7.684GIB | 16.96% | 1564B / 8.65MB | 356MB / 536MB | 53 |
| 8 | 8302c7cefe70 | alamAPI | 0.18% | 45.67MiB / 7.684GiB | 0.587 | 322kB / 224kB | 28.5MB / 6B | 3 |
| 9 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 10 | f10bc4b28a7e | alamDB | 0.30% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 11 | 650af2d6431c | alamPREPROCESSOR | 2.87% | 1.303GiB / 7.684GiB | 16.95% | 1564B / 8.66MB | 356MB / 537MB | 53 |
| 12 | 8302c7cefe70 | alamAPI | 0.21% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 13 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 14 | f10bc4b28a7e | alamDB | 0.20% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 15 | 650af2d6431c | alamPREPROCESSOR | 1.33% | 1.303GiB / 7.684GiB | 16.95% | 156MB / 8.66MB | 356MB / 537MB | 53 |
| 16 | 8302c7cefe70 | alamAPI | 0.18% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 17 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PIDS |
| 18 | f10bc4b28a7e | alamDB | 0.30% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 19 | 650af2d6431c | alamPREPROCESSOR | 2.47% | 1.302GiB / 7.684GiB | 16.94% | 1564B / 8.67MB | 356MB / 537MB | 53 |
| 20 | 8302c7cefe70 | alamAPI | 0.19% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 21 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| 22 | f10bc4b28a7e | alamDB | 0.21% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 23 | 650af2d6431c | alamPREPROCESSOR | 1.58% | 1.302GiB / 7.684GiB | 16.94% | 156MB / 8.67MB | 356MB / 538MB | 53 |
| 24 | 8302c7cefe70 | alamAPI | 0.13% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 25 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN X | MET I/O | BLOCK I/O | PIDS |
| 26 | f10bc4b28a7e | alamDB | 0.51% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 27 | 650af2d6431c | alamPREPROCESSOR | 1.88% | 1.3GiB / 7.684GiB | 16.92% | 1564B / 8.67MB | 356MB / 538MB | 53 |
| 28 | 8302c7cefe70 | alamAPI | 0.26% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 29 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM X | MET I/O | BLOCK I/O | PIDS |
| 30 | f10bc4b28a7e | alamDB | 0.45% | 189.4MiB / 7.684GiB | 2.41% | 2.3MB / 1.03MB | 54.5MB / 40.6MB | 31 |
| 31 | 650af2d6431c | alamPREPROCESSOR | 4.15% | 1.3GiB / 7.684GiB | 16.92% | 157MB / 8.68MB | 356MB / 538MB | 53 |
| 32 | 8302c7cefe70 | alamAPI | 0.22% | 45.67MiB / 7.684GiB | 0.58% | 322kB / 224kB | 28.5MB / 6B | 3 |
| 33 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | HEN X | MET I/O | BLOCK T/O | PTDS |
| | | | | | | | | |
| | | | | | | | | |

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| | 8139 | 650af2d6431c | alamPREPROCESSOR | 2.46% | 1.135GiB / 7.684GiB | 14.77% | 308MB / 15.2MB | 359MB / 1.06GB | 53 |
|---|------|--------------|------------------|-------|---------------------|--------|-----------------|-----------------|------|
| | 8140 | 8302c7cefe70 | alamAPI | 0.26% | 45.51MiB / 7.684GiB | 0.58% | 442kB / 305kB | 28.5MB / 0B | 3 |
| • | 8141 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| | 8142 | f16bc4b28a7e | alamDB | 0.30% | 186.9MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8143 | 650af2d6431c | alamPREPROCESSOR | 0.20% | 1.1356iB / 7.6846iB | 14.77% | 308MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8144 | 8302c7cefe70 | alamAPI | 0.27% | 45.51MiB / 7.684GiB | 0.58% | 442kB / 305kB | 28.5MB / OB | 3 |
| | 8145 | CONTAINER ID | KAME | CPU % | MEM USAGE / LIMIT | MEM % | MET I/O | BLOCK I/O | PIDS |
| | 8146 | f10bc4b28a7e | alamDB | 0.55% | 186.9MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8147 | 650af2d6431c | alamPREPROCESSOR | 0.50% | 1.135GiB / 7.684GiB | 14.77% | 309MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8148 | 8302c7cefe70 | alamAPI | 0.15% | 45.51MiB / 7.684GiB | 0.58% | 442kB / 305kB | 28.5MB / OB | 3 |
| | 8149 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEN % | MET I/O | BLOCK I/O | PIDS |
| | 8150 | f10bc4b28a7e | alamDB | 0.20% | 186.9MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8151 | 650af2d6431c | alamPREPROCESSOR | 2.51% | 1.135GiB / 7.684GiB | 14.77% | 309MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8152 | 8302c7cefe70 | alamAPI | 0.19% | 45.51MiB / 7.684GiB | 0.58% | 442kB / 305kB | 28.5MB / OB | 3 |
| | 8153 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM % | MET I/O | BLOCK I/O | PIDS |
| | 8154 | f10bc4b28a7e | alamDB | 0.32% | 186.9MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8155 | 650af2d6431c | alamPREPROCESSOR | 2.70% | 1.135GiB / 7.684GiB | 14.77% | 309MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8156 | 8302c7cefe70 | alamAPI | 9.16% | 45.51MiB / 7.684GiB | 0.58% | 442kB / 305kB | 28.5MB / OB | 3 |
| | 8157 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM % | MET I/O | BLOCK I/O | PIDS |
| | 8158 | f10bc4b28a7e | alamDB | 0.31% | 186.9MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8159 | 650af2d6431c | alamPREPROCESSOR | 3.63% | 1.135GiB / 7.684GiB | 14.77% | 309MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8160 | 8302c7cefe70 | alamAPI | 0.23% | 45.51MiB / 7.684GiB | 0.58% | 443kB / 305kB | 28.5MB / OB | 3 |
| | 8161 | CONTAINER ID | NAME | CPU % | MEM USAGE / LIMIT | MEM % | MET I/O | BLOCK I/O | PIDS |
| | 8162 | f10bc4b28a7e | alamDB | 0.72% | 187MiB / 7.684GiB | 2.38% | 2.49MB / 1.27MB | 54.5MB / 49.7MB | 31 |
| | 8163 | 650af2d6431c | alamPREPROCESSOR | 4.19% | 1.135GiB / 7.684GiB | 14.77% | 309MB / 15.2MB | 359MB / 1.06GB | 53 |
| | 8164 | 8302c7cefe70 | alamAPI | 0.21% | 45.51MiB / 7.684GiB | 0.58% | 443kB / 305kB | 28.5MB / OB | 3 |

Figure B.58: Raw Logs of alamPREPROCESSOR System Statistics

B.5.2 PSEI Trading Baseline Data



Figure B.59: Day 1 PSEI Trading Raw Data



Figure B.60: Day 2 PSEI Trading Raw Data



Figure B.61: Day 3 PSEI Trading Raw Data

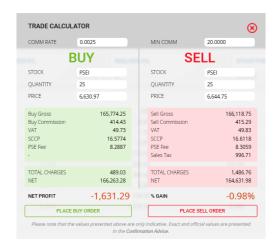


Figure B.62: Day 4 PSEI Trading Raw Data

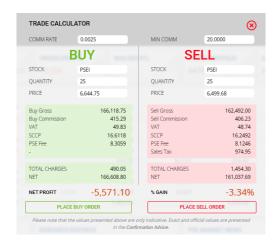


Figure B.63: Day 5 PSEI Trading Raw Data

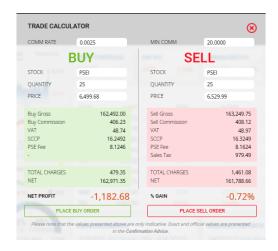


Figure B.64: Day 6 PSEI Trading Raw Data

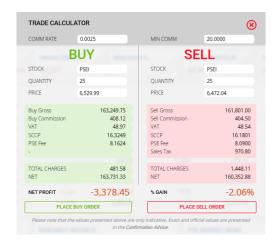


Figure B.65: Day 7 PSEI Trading Raw Data

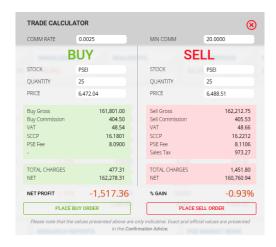


Figure B.66: Day 8 PSEI Trading Raw Data

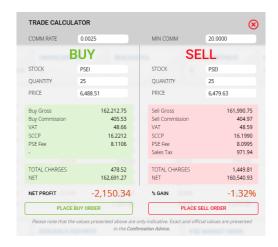


Figure B.67: Day 9 PSEI Trading Raw Data

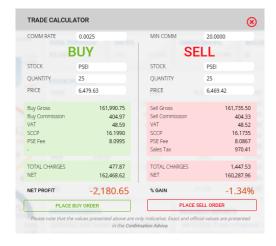


Figure B.68: Day 10 PSEI Trading Raw Data

B.5.3 Raw Real-world alamSYS Application



Figure B.69: Real World Application Raw Data Logs

Appendix C

Project Management Documentation

XXX

Appendix D

Glossary of Terms

XXX

Appendix E

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Appendix F

Author's Contact Information

The author is open for collaborations and additional conversation in regards to the topics discussed in the development of this Special Problem. Where, the following contact information is given to make it easier for anyone to communicate with the author in the future.

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If you have any questions about this Special Problem or would like to collaborate on it, please feel free to contact the author using any of the above contact details. The author is eager to discuss ideas for more in-depth study and advancement in this area with interested parties.