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.

Contents

A	Source Code Repository	1			
В	Raw Data Figures				
	B.1 Exploratory Stocks Data Graphs	2			
	B.2 Raw Model Testing and Cross-Validation Results	12			
	B.3 Model Testing Raw Test Results for DMD-LSTM	16			
	B.4 Daily Return Distribution of the Different Stocks	19			
	B.5 Raw alamSYS Test Data	33			
	B.5.1 Raw System Logs	33			
	B.5.2 PSEI Trading Baseline Data	39			
	B.5.3 Raw Real-world alamSYS Application	43			
\mathbf{C}	C Project Management Documentation				
D	O Glossary of Terms				
${f E}$	E Acknowledgements				

F Author's Contact Information

49

List of Figures

B.1	Opening,	High, Low, and	d Closing	Prices	on AC		 		2
B.2	Opening,	High, Low, and	d Closing	Prices	for ALI		 		3
В.3	Opening,	High, Low, and	d Closing	Prices	for AP		 	 •	3
B.4	Opening,	High, Low, and	d Closing	Prices	for BDC)	 		4
B.5	Opening,	High, Low, and	d Closing	Prices	for BLC	ОМ	 		4
B.6	Opening,	High, Low, and	d Closing	Prices	for FGE	EN .	 		5
B.7	Opening,	High, Low, and	d Closing	Prices	for GLC)	 		5
B.8	Opening,	High, Low, and	d Closing	Prices	for ICT		 		6
B.9	Opening,	High, Low, and	d Closing	Prices	on JGS		 		6
B.10	Opening,	High, Low, and	d Closing	Prices	on LTG	·	 		7
B.11	Opening,	High, Low, and	d Closing	Prices	on MEC	G	 		7
B.12	Opening,	High, Low, and	d Closing	Prices	on MEF	₹	 		8
B.13	Opening,	High, Low, and	d Closing	Prices	on MPI		 	 •	8
B.14	Opening,	High, Low, and	d Closing	Prices	on PGC	DLD .	 		9
B.15	Opening,	High, Low, and	d Closing	Prices	on PSE	Ι	 	 ,	9

B.16	Opening, High, Low, and Closing Prices on RLC	10
B.17	Opening, High, Low, and Closing Prices on RRHI	10
B.18	Opening, High, Low, and Closing Prices on SMC	11
B.19	Opening, High, Low, and Closing Prices on TEL	11
B.20	Opening, High, Low, and Closing Prices on URC	12
B.21	Raw Model Scores for Baseline 5	12
B.22	Raw Model Scores for Baseline 10	13
B.23	Raw Model Scores for Baseline 15	13
B.24	Raw Model Scores for Baseline 20	14
B.25	Raw Model Scores for DMD-LSTM 5	14
B.26	Raw Model Scores for DMD-LSTM 10	15
B.27	Raw Model Scores for DMD-LSTM 15	15
B.28	Raw Model Scores for DMD-LSTM 20	16
B.29	Actual vs Predicted Closing Prices for DMD-LSTM 5 (Using Train Data from PSEI)	17
	Actual vs Predicted Closing Prices for DMD-LSTM 10 (Using Train Data from PSEI)	17
B.31	Actual vs Predicted Closing Prices for DMD-LSTM 15 (Using Train Data from PSEI)	18
B.32	Actual vs Predicted Closing Prices for DMD-LSTM 20 (Using Train Data from PSEI)	19
B.33	Daily Return Distribution of AC	20
B.34	Opening, High, Low, and Closing Prices for ALI	20

B.35 Opening, High, Low, and Closing Prices for AP	21
B.36 Opening, High, Low, and Closing Prices for BDO	22
B.37 Opening, High, Low, and Closing Prices for BLOOM	22
B.38 Opening, High, Low, and Closing Prices for FGEN	23
B.39 Opening, High, Low, and Closing Prices for GLO	24
B.40 Opening, High, Low, and Closing Prices for ICT	24
B.41 Daily Return Distribution of JGS	25
B.42 Daily Return Distribution of LTG	26
B.43 Daily Return Distribution of MEG	26
B.44 Daily Return Distribution of MER	27
B.45 Daily Return Distribution of MPI	28
B.46 Daily Return Distribution of PGOLD	28
B.47 Daily Return Distribution of PSEI	29
B.48 Daily Return Distribution of RLC	30
B.49 Daily Return Distribution of RRHI	30
B.50 Daily Return Distribution of SMC	31
B.51 Daily Return Distribution of TEL	32
B.52 Daily Return Distribution of URC	32
B.53 Raw Risk Profile Scores	33
B.54 Raw Logs of Idle System Statistics	34
B.55 Raw Logs of Deployment System Statistics	35

B.56 Raw Logs of Data Collector Module (DCM) System Statistics	36
$\rm B.57~Raw~Logs$ of Data Processor Module (DPM) System Statistics $$	37
B.58 Raw Logs of alamPREPROCESSOR System Statistics	38
B.59 Day 1 PSEI Trading Raw Data	39
B.60 Day 2 PSEI Trading Raw Data	39
B.61 Day 3 PSEI Trading Raw Data	40
B.62 Day 4 PSEI Trading Raw Data	40
B.63 Day 5 PSEI Trading Raw Data	41
B.64 Day 6 PSEI Trading Raw Data	41
B.65 Day 7 PSEI Trading Raw Data	42
B.66 Day 8 PSEI Trading Raw Data	42
B.67 Day 9 PSEI Trading Raw Data	43
B.68 Day 10 PSEI Trading Raw Data	43
B.69 Real World Application Raw Data Logs	44

List of Tables

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.

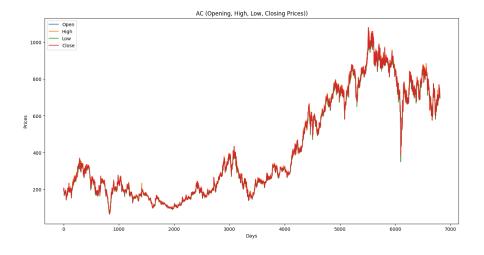


Figure B.1: Opening, High, Low, and Closing Prices on AC

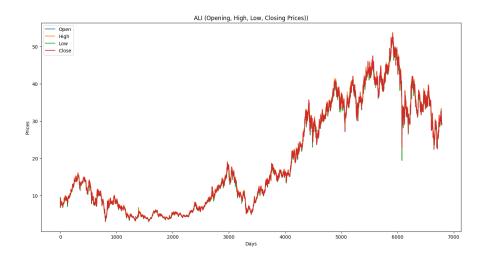


Figure B.2: Opening, High, Low, and Closing Prices for ALI

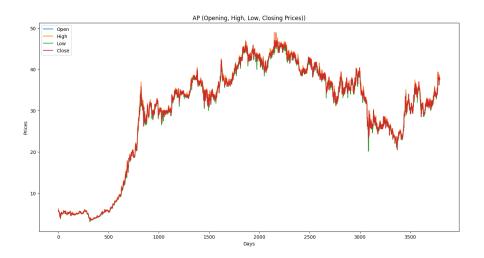


Figure B.3: Opening, High, Low, and Closing Prices for AP

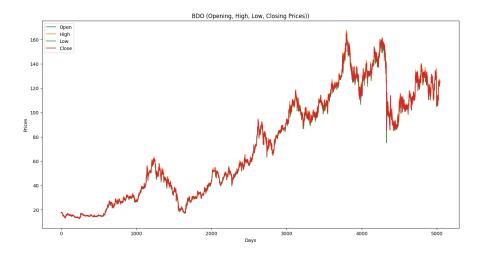


Figure B.4: Opening, High, Low, and Closing Prices for BDO

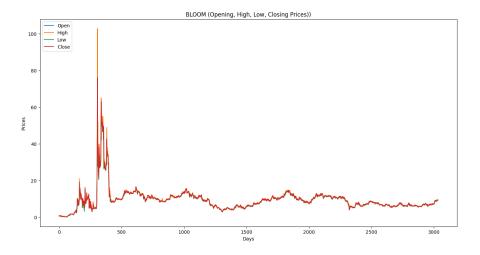


Figure B.5: Opening, High, Low, and Closing Prices for BLOOM

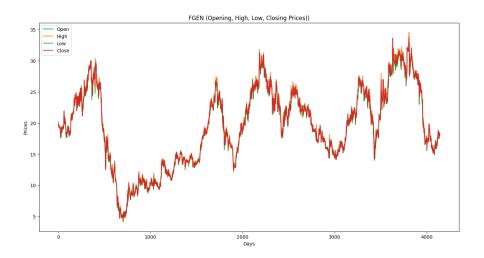


Figure B.6: Opening, High, Low, and Closing Prices for FGEN

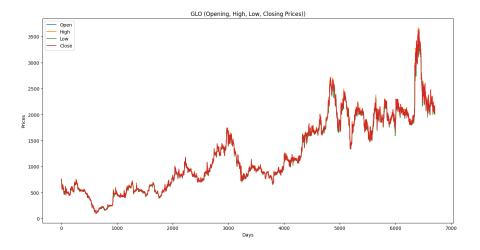


Figure B.7: Opening, High, Low, and Closing Prices for GLO

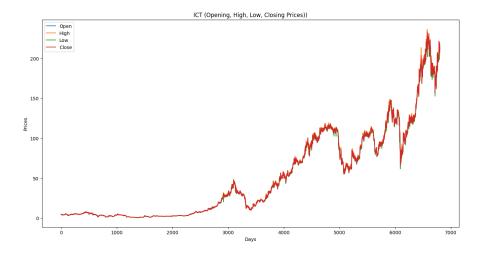


Figure B.8: Opening, High, Low, and Closing Prices for ICT

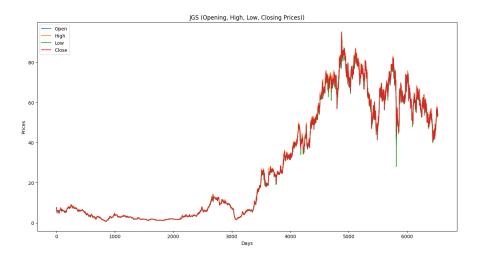


Figure B.9: Opening, High, Low, and Closing Prices on JGS

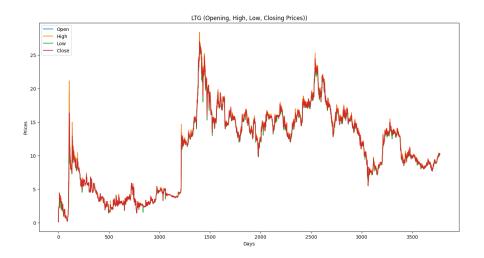


Figure B.10: Opening, High, Low, and Closing Prices on LTG

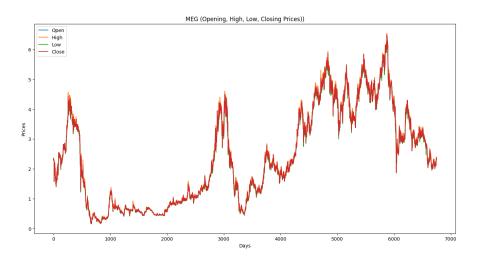


Figure B.11: Opening, High, Low, and Closing Prices on MEG

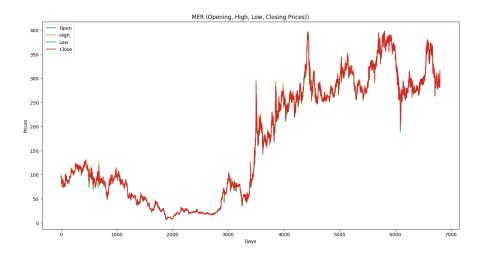


Figure B.12: Opening, High, Low, and Closing Prices on MER

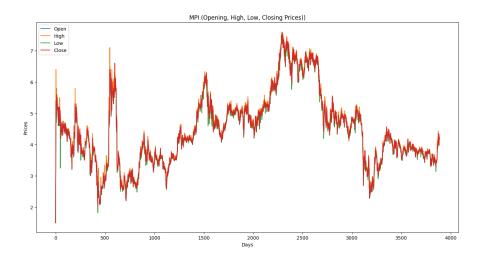


Figure B.13: Opening, High, Low, and Closing Prices on MPI

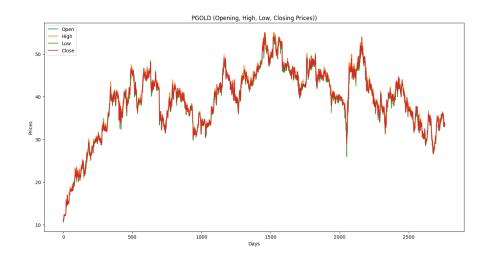


Figure B.14: Opening, High, Low, and Closing Prices on PGOLD

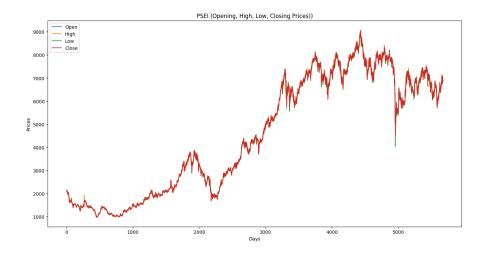


Figure B.15: Opening, High, Low, and Closing Prices on PSEI $\,$

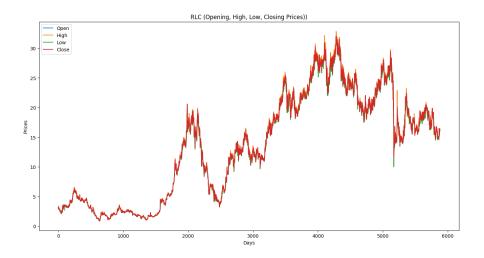


Figure B.16: Opening, High, Low, and Closing Prices on RLC

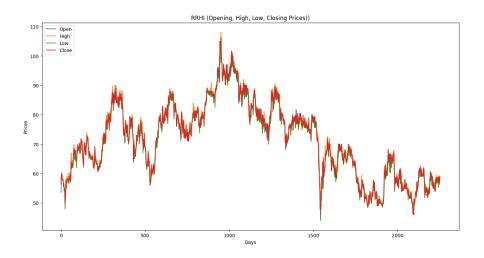


Figure B.17: Opening, High, Low, and Closing Prices on RRHI

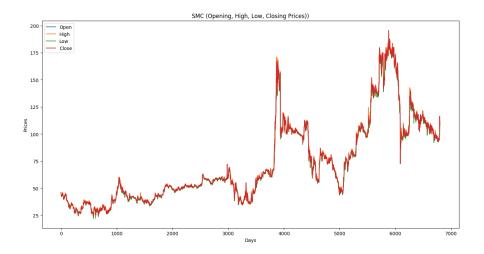


Figure B.18: Opening, High, Low, and Closing Prices on SMC

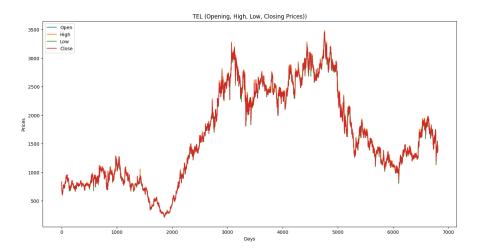


Figure B.19: Opening, High, Low, and Closing Prices on TEL

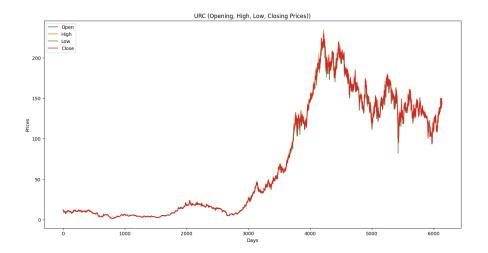


Figure B.20: Opening, High, Low, and Closing Prices on URC

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.

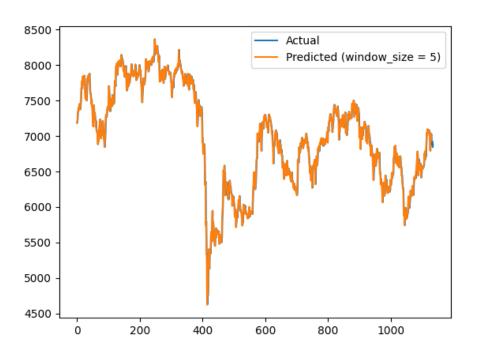


Figure B.29: Actual vs Predicted Closing Prices for DMD-LSTM 5 (Using Train Data from PSEI)

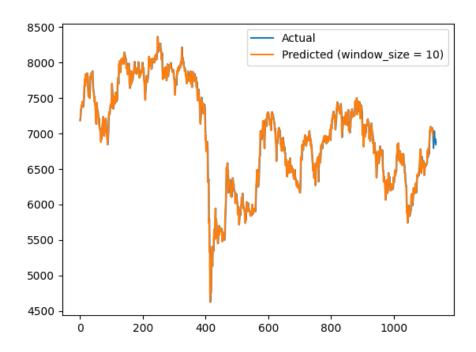


Figure B.30: Actual vs Predicted Closing Prices for DMD-LSTM 10 (Using Train Data from PSEI)

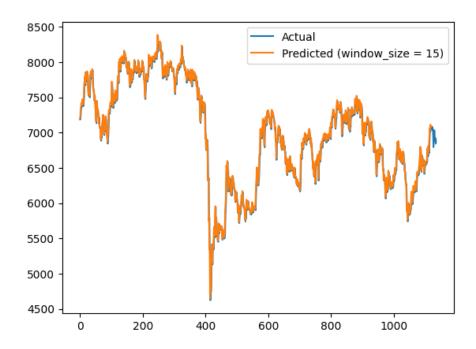


Figure B.31: Actual vs Predicted Closing Prices for DMD-LSTM 15 (Using Train Data from PSEI)

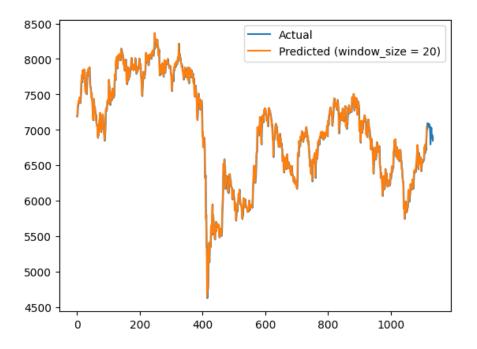


Figure B.32: Actual vs Predicted Closing Prices for DMD-LSTM 20 (Using Train Data from PSEI)

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.

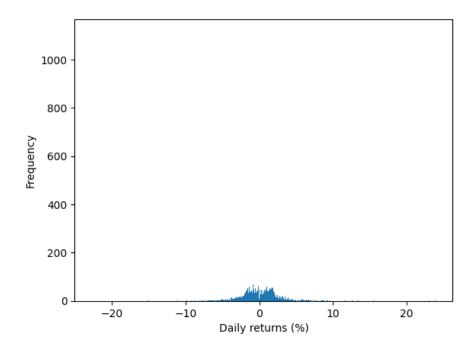


Figure B.33: Daily Return Distribution of AC

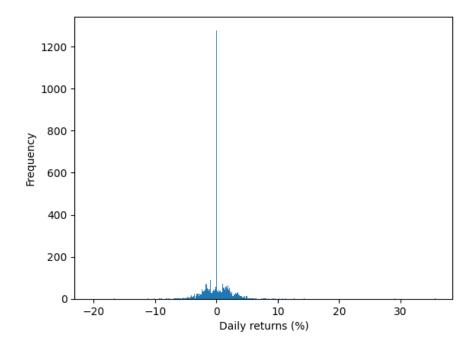


Figure B.34: Opening, High, Low, and Closing Prices for ALI

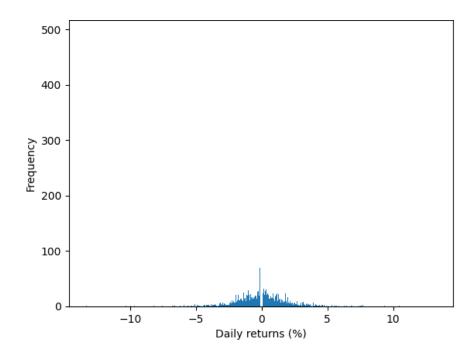


Figure B.35: Opening, High, Low, and Closing Prices for AP

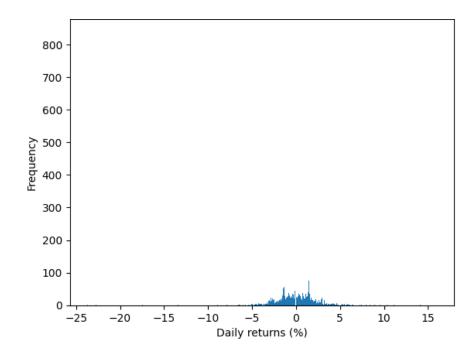


Figure B.36: Opening, High, Low, and Closing Prices for BDO

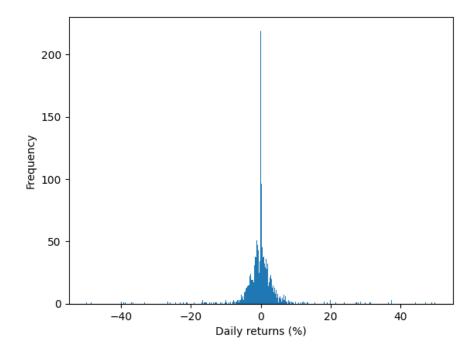


Figure B.37: Opening, High, Low, and Closing Prices for BLOOM

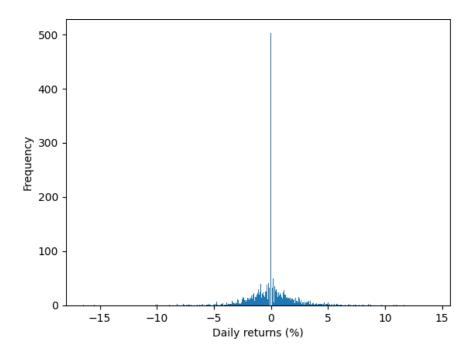


Figure B.38: Opening, High, Low, and Closing Prices for FGEN

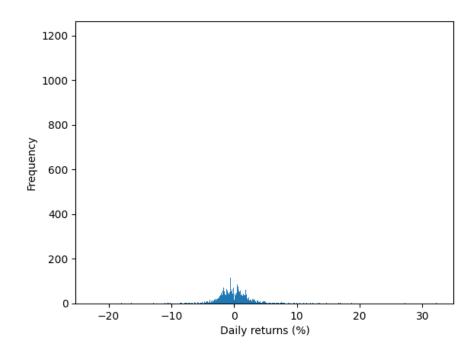


Figure B.39: Opening, High, Low, and Closing Prices for GLO

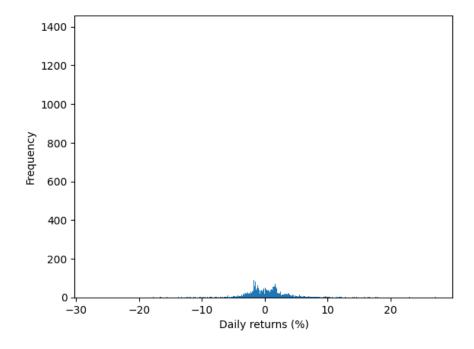


Figure B.40: Opening, High, Low, and Closing Prices for ICT

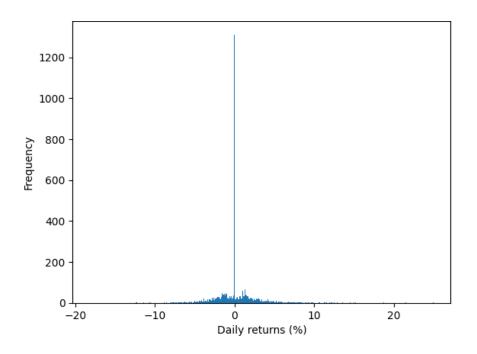


Figure B.41: Daily Return Distribution of JGS

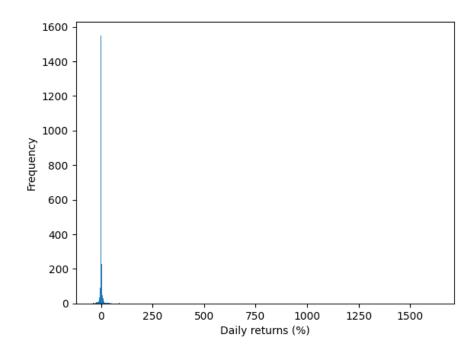


Figure B.42: Daily Return Distribution of LTG

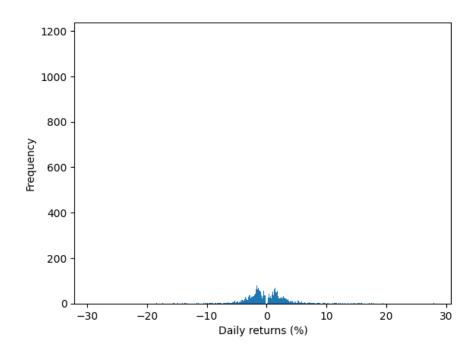


Figure B.43: Daily Return Distribution of MEG

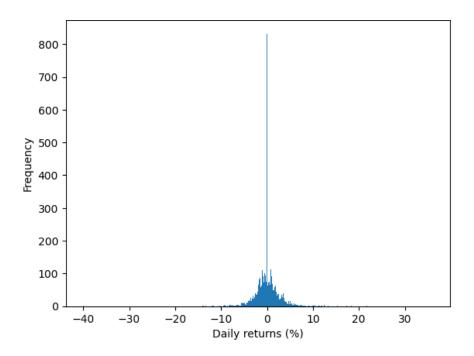


Figure B.44: Daily Return Distribution of MER

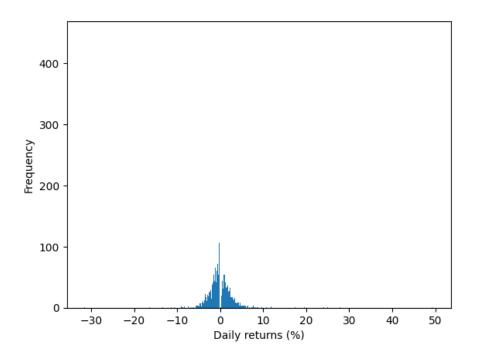


Figure B.45: Daily Return Distribution of MPI

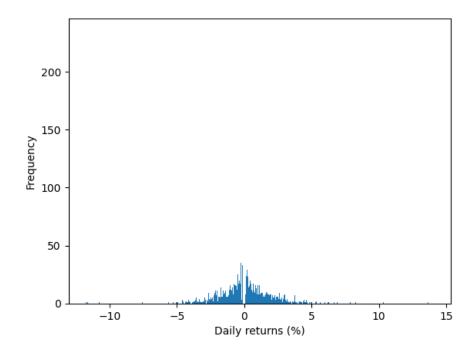


Figure B.46: Daily Return Distribution of PGOLD

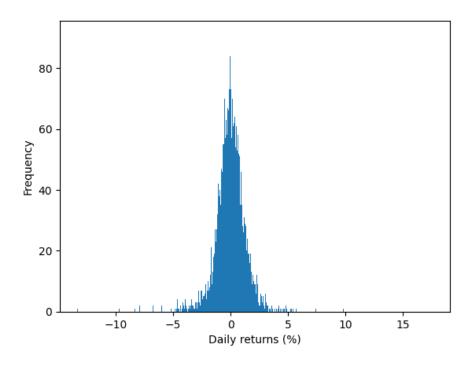


Figure B.47: Daily Return Distribution of PSEI

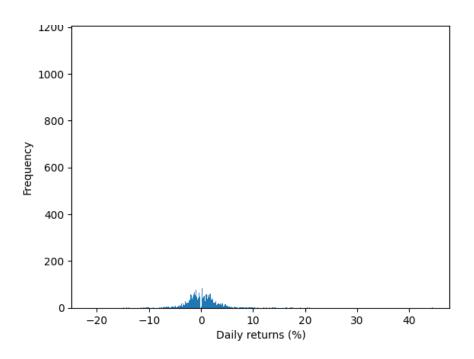


Figure B.48: Daily Return Distribution of RLC

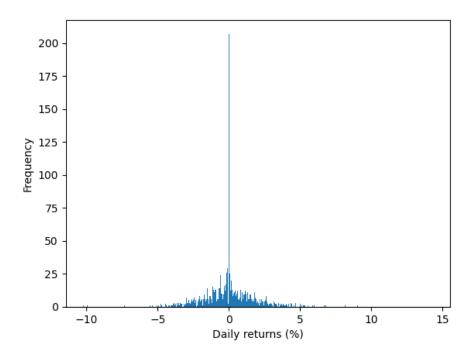


Figure B.49: Daily Return Distribution of RRHI

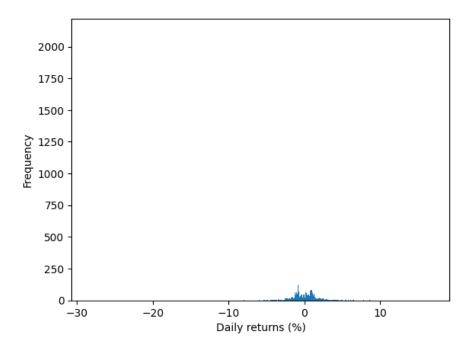


Figure B.50: Daily Return Distribution of SMC

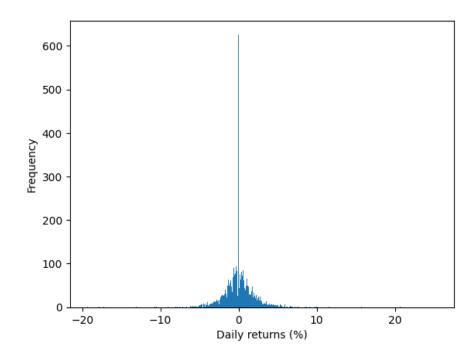


Figure B.51: Daily Return Distribution of TEL

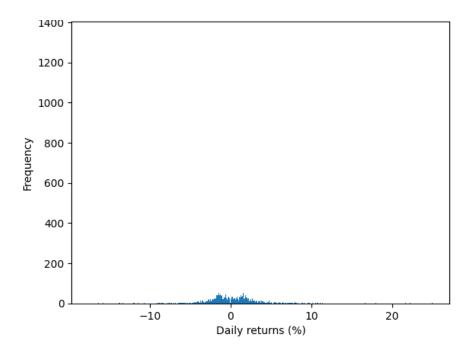


Figure B.52: Daily Return Distribution of URC

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
								<u>PI</u> I
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
45 977 978 9 79	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 29
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
45 0 77 0 78 0 79 0 80 0 81 0 82 0 83	CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce	NAME AlamOB alamAPI alamPREPROCESSOR NAME alamOB alamAPI	CPU X 0.17% 0.16% 0.01% CPU X 0.20% 0.16%	MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB 359MiB / 7.684GiB MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB	MEN % 2.28% 9.58% 4.56% MEN % 2.28% 9.58%	MET I/O 80-5kB / 114kB 113kB / 76-4kB 3.38kB / 2.65kB MET I/O 80-5kB / 114kB 113kB / 76-4kB	BLOCK I/O 55.9MB / 6.55MB 28.2MB / 08 28.3MB / 12.3kB BLOCK I/O 55.9MB / 6.55MB 28.2MB / 08	PII 29 3 15 PII 29
45 0 77 0 78 0 79 0 80 0 81 0 82 0 83	CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237	NAME ALAMDB ALAMAPI ALAMAPI ALAMAPE ALAMABE ALAMDB	CPU X 0.17% 0.16% 0.01X CPU X 0.20% 0.16% 0.20% 0.16% 0.01%	MEN USAGE / LIMIT MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB 359MiB / 7.684GiB	MEN % 2.28% 0.58% 4.56% MEN % 2.28% 0.58% 4.56%	MET 1/0 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET 1/0 89.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB	BLOCK I/O 55.5MB / 6.55MB 28.2MB / 98 283MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 98 283MB / 12.3kB	PIII 29 3 15 PIII 29 3
45 977 978 979 989 981 982 983	CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce	NAME AlamOB alamAPI alamPREPROCESSOR NAME alamOB alamAPI	CPU X 0.17% 0.16% 0.01% CPU X 0.20% 0.16%	MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB 359MiB / 7.684GiB MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB	MEN % 2.28% 9.58% 4.56% MEN % 2.28% 9.58%	MET I/O 80-5kB / 114kB 113kB / 76-4kB 3.38kB / 2.65kB MET I/O 80-5kB / 114kB 113kB / 76-4kB	BLOCK I/O 55.9MB / 6.55MB 28.2MB / 08 28.3MB / 12.3kB BLOCK I/O 55.9MB / 6.55MB 28.2MB / 08	PIII 29 3 15 PIII 29 3
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45 977 978 979 989 981 982 983 984 985	CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c	NAME ALAMDB ALAMAPI ALAMDB ALAMDB ALAMDB ALAMDB ALAMAPI ALAMDB ALAMDB ALAMDB ALAMDB	CPU X 9.17% 9.16% 9.91% CPU X 9.26% 9.16% 9.16% 9.16% 9.91% CPU X 9.22%	MEN USAGE / LIMIT 179.5MiB / 7.684GiB 45.73MiB / 7.684GiB 359MiB / 7.684GiB 359MiB / 7.684GiB 45.73MiB / 7.684GiB 45.73MiB / 7.684GiB 45.73MiB / 7.684GiB MEN USAGE / LIMIT 179.5MiB / 7.684GiB	MEN X 2.28% 0.58% 4.56% MEN X 2.28% 0.58% 4.56% MEN X 2.28% 4.56% MEN X 2.28%	MET I/O 80.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 80.5kB / 114kB 113kB / 76.4kB 3.38kB / 2.65kB MET I/O 80.5kB / 114kB	BLOCK I/O 55.5MB / 6.55MB 28.2MB / 08 283MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.2MB / 08 283MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB	PIII 29 3 15 PIII 29 3 15 PIII 29
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45 977 978 9879 9880 9881 9882 9883 9884 9885 9886 9887 999 999 999 999	CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c 00b3dc1eb4ce 47dba53c6237 CONTAINER ID d878d6975a9c	NAME alamAPI	CPU X 0.17X 0.16X 0.01X 0.20X 0.16X 0.16X 0.10X 0.10X CPU X 0.11X CPU X 0.11X CPU X 0.23X 0.11X CPU X 0.23X 0.23X 0.23X 0.23X 0.21X	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 MEM USAGE / LINIT 179.5MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB 359MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB 45.73MIB / 7.684GIB MEM USAGE / LINIT 179.5MIB / 7.684GIB	MER X 2.28% 0.58% 4.56% MER X 2.28% 0.58% MER X 2.28% 0.58% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28% 4.56% MER X 2.28%	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 89.5kB / 114kB	BLOCK I/O 55.5MB / 6.55MB 28.7MB / 08 28.7MB / 08 28.7MB / 08 28.7MB / 6.55MB BLOCK I/O 55.5MB / 6.55MB BLOCK I/O 55.5MB / 6.55MB 28.7MB / 08 28.7MB / 0.555MB 28.7MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.7MB / 12.3kB BLOCK I/O 55.5MB / 6.55MB 28.7MB / 06 28.7MB / 06 28.7MB / 06 28.7MB / 06 28.7MB / 06 28.7MB / 06 28.7MB / 06 28.7MB / 06 55.5MB / 6.57MB	PIII PIII 29 3 15 PIII 29 3 15 PIII 29 3 15 PIII 29 3 15 PIII 29 3 15 PIII 29 3
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45 977 978 979 988 981 982 983 984 985 986 987 999 999 999 108 1191	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 20 20 20 20 20 20 20 20 20 20 20 20 20
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

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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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				• • •				
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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
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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
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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

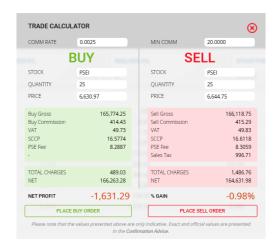


Figure B.62: Day 4 PSEI Trading Raw Data

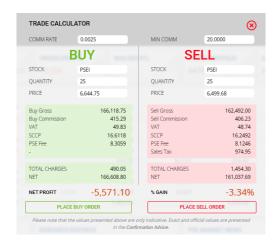


Figure B.63: Day 5 PSEI Trading Raw Data

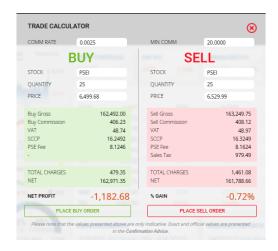


Figure B.64: Day 6 PSEI Trading Raw Data

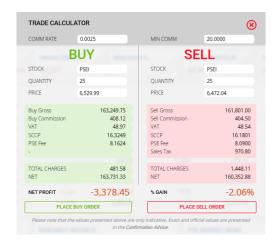


Figure B.65: Day 7 PSEI Trading Raw Data

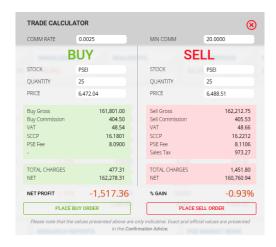


Figure B.66: Day 8 PSEI Trading Raw Data

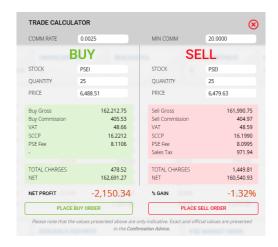


Figure B.67: Day 9 PSEI Trading Raw Data

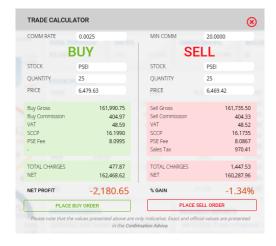


Figure B.68: Day 10 PSEI Trading Raw Data

B.5.3 Raw Real-world alamSYS Application



Figure B.69: Real World Application Raw Data Logs

Appendix C

Project Management Documentation

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Appendix D

Glossary of Terms

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Appendix E

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Appendix F

Author's Contact Information

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