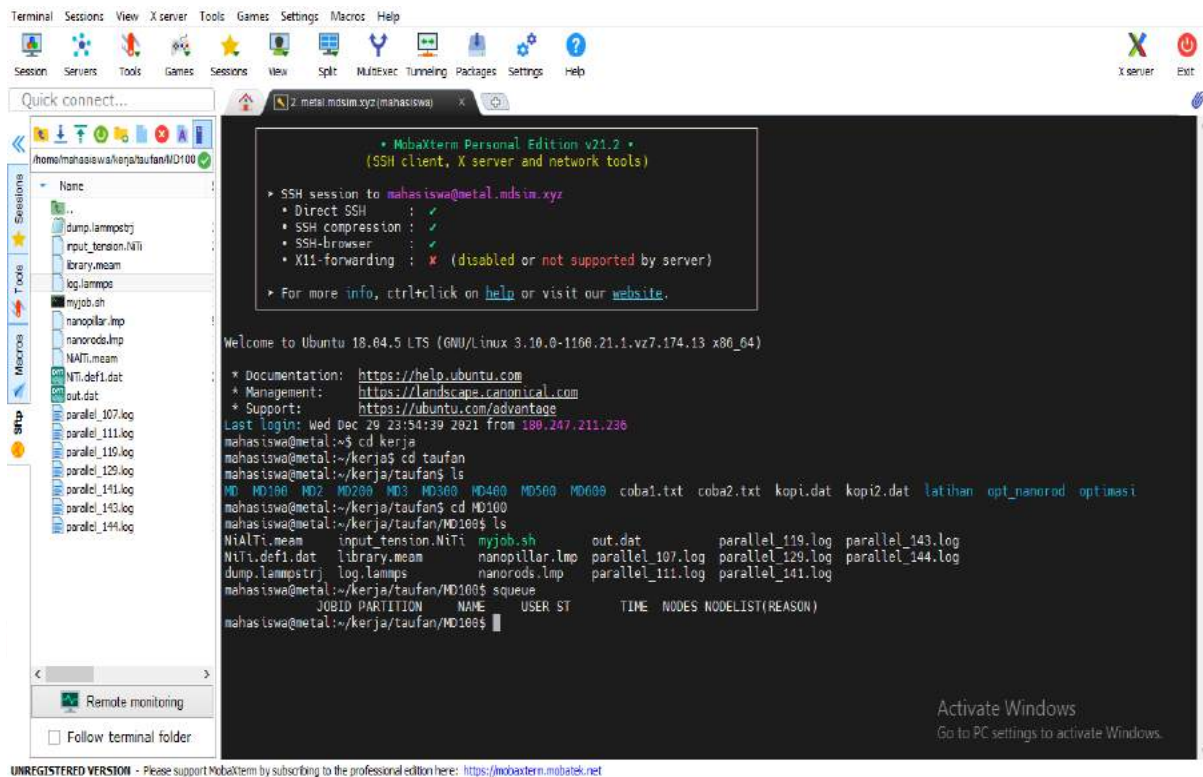**LAMPIRAN**

1.1 Proses Menjalankan Simulasi Dengan MobaXterm

1.2 Log LAMMPS Optimasi TiAl Nanorods Temperatur 100 K

```
log.lammps
Step Lx Ly Lz Press Pxx Pyy Pzz PotEng Temp
   0   80.365905   80.365905   123.59946   362.35507   361.21322   363.83254   362.01947   -91320.133          100
 100   80.359274   80.359274   123.58926   1099.4867   1134.9174   1044.7791   1118.7635   -91185.996   50.475363
 200   80.399168   80.399168   123.65062   237.86713   423.86345   336.16044   -46.422495  -91178.687   48.019423
 300   80.41528    80.41528    123.6754   -300.06061  -72.328465  -211.00218  -616.8512    -91187.031   51.537648
 400   80.41367    80.41367    123.67292  -341.82721  -107.7483   -265.87471  -651.85861   -91180.961   49.762389
 500   80.404603   80.404603   123.65898  -274.94796  -91.343805 -164.46704  -569.03302   -91182.889   50.966037
 600   80.389952   80.389952   123.63644  -43.839769  62.866404   44.072831  -238.45854   -91181.398   50.925672
 700   80.36882    80.36882    123.60394   163.3217    225.52001   244.30248   20.142608   -91179.036   50.587407
 800   80.353525   80.353525   123.58042   183.74796   180.8501    276.2042    94.189583   -91181.62    52.086446
 900   80.349041   80.349041   123.57352   107.84557   64.413688   202.70958   56.413434   -91179.597   51.882197
1000   80.339876   80.339876   123.55943   6.5266021  -49.519305   119.08579  -49.986678   -91179.908   52.546176
1100   80.332411   80.332411   123.54795  -58.457903  -110.86011  -11.68052   -52.833078   -91177.407   52.176483
1200   80.323645   80.323645   123.53446  -104.59789  -126.89479  -116.83845  -70.060411   -91177.431   52.742083
1300   80.304774   80.304774   123.50544  -50.433231  -81.636055  -95.859116  26.19548    -91175.418   52.554876
1400   80.292974   80.292974   123.48729  -13.545493  -45.71542   -127.50863   132.58757   -91176.339   53.456135
1500   80.279713   80.279713   123.4669    35.189941   17.987674  -128.72151   216.30366   -91174.965   53.511432
1600   80.273113   80.273113   123.45675   62.722972   35.702887  -115.27566   267.74169   -91174.433   53.879333
1700   80.263407   80.263407   123.44182   46.797649  -23.324366  -127.16836   290.88567   -91173.416   54.067957
1800   80.256597   80.256597   123.43135   3.8975036  -82.060401  -169.55275   263.30566   -91171.104   53.778642
1900   80.255282   80.255282   123.42933  -64.660239  -200.62776  -188.26757   194.91461   -91172.116   54.719984
2000   80.251139   80.251139   123.42295  -63.385149  -247.35406  -158.61718   215.81579   -91169.994   54.503274
2100   80.250022   80.250022   123.42124  -30.59089   -246.83331  -99.204946   254.26559   -91170.865   55.394641
2200   80.249993   80.249993   123.42119   19.738033  -176.81684  -52.049183   288.08012   -91169.22    55.354791
2300   80.248551   80.248551   123.41897   11.35731   -178.83683  -63.644244   276.553     -91168.905   55.807738
2400   80.252747   80.252747   123.42543   6.0112708  -164.15899  -86.660993   268.8538    -91168.399   56.191781
2500   80.257846   80.257846   123.43327   10.54801   -123.12634  -98.861452   253.63182   -91167.576   56.45809
2600   80.269286   80.269286   123.45086   6.0463815  -64.070607  -132.76234   214.9721    -91165.651   56.318918
2700   80.275769   80.275769   123.46083   4.581672    3.9633289  -148.04223   157.82392   -91165.051   56.66888
2800   80.287761   80.287761   123.47928  -10.630963  -13.05916   -159.98622   141.15249   -91164.699   57.111459
2900   80.296357   80.296357   123.4925   -17.158717   11.945919  -143.12259   79.700525   -91165.144   57.849727
3000   80.30516    80.30516    123.50604   18.479373   40.072098  -70.036221   85.402243   -91162.021   57.268233
3100   80.321524   80.321524   123.5312   -2.0650359   14.590473  -29.04068    8.2550996   -91161.637   57.699832
3200   80.33344    80.33344    123.54953   0.18299158  1.8999213   42.824071  -44.175018   -91163.418   58.933581
```
C:\Users\INV\AppData\Local\Temp\Mxt212\RemoteFiles\132092_2_ UNIX   Plain text   1179 lines   Row #1   Col #1

1.3 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 100 K

```
log.lammps
Step v_strain Temp v_p2 v_p3 v_p4 KinEng PotEng Press
   0  1.0351716e-15   100.0268   -0.0040513609 -0.022033716  0.0090477621   270.34247   -91048.655    56.791051
 200  0.002           100.36541  -0.00024651178 -0.013057463  0.10311369    271.25762   -91048.58    -299.36572
 400  0.004           100.98239  -0.001967278  -0.0027553083  0.19924358    272.92513   -91048.36    -648.40333
 600  0.006           100.25933   0.0039665455  0.0022707609  0.30681269    270.97093   -91043.629   -1043.5
 800  0.008           100.4778    6.3652702e-05 0.0036922446  0.40996544    271.5614    -91040.48    -1379.0711
1000  0.01            100.80288   0.0028635158  0.012650906   0.52329671    272.43999   -91036.673   -1796.0371
1200  0.012           100.39132   0.0023740336  0.0025235511  0.6271105     271.32766   -91029.859   -2106.6936
1400  0.014           101.28408  -0.003580328  -0.0058138905  0.73157241    273.74052   -91025.536   -2407.2606
1600  0.016           101.05927  -0.0048535226 -0.0025262355  0.85575243    273.13292   -91017.13    -2827.9089
1800  0.018           100.51926  -0.0017001224  0.0043613872  0.98147286    271.67343   -91006.732   -3280.4471
2000  0.02            100.26861   0.0059305323  0.0075154173  1.1135843     270.99601   -90995.945   -3756.7675
2200  0.022           100.55176   0.0035770375  0.0025612697  1.2391183     271.76127   -90985.423   -4150.8554
2400  0.024           101.0711   -0.0064594708 -0.012663352   1.3630776     273.16489   -90974.315   -4479.8493
2600  0.026           100.74203   0.0013064731 -0.0033252075  1.5044501     272.27553   -90959.658   -5008.1045
2800  0.028           100.58567   0.0057445433 -0.0013182216  1.6436908     271.85293   -90944.166   -5493.7237
3000  0.03            101.05785   0.0059639485 -0.0011199107  1.782486      273.12909   -90929.075   -5957.7667
3200  0.032           100.40627   0.001006144  -0.001809449   1.9251268     271.36807   -90909.603   -6414.4115
3400  0.034           99.894081   0.00787829   -0.00025347357 2.0752345     269.98377   -90889.157   -6942.8645
3600  0.036           100.41597   0.0023976594 -0.0043845505  2.219618      271.39428   -90870.153   -7392.1038
3800  0.038           100.20151   0.0039002553  0.0028533001  2.3734775     270.81465   -90847.756   -7934.1034
4000  0.04            100.64727   0.0050701681  0.0047493477  2.5262074     272.01943   -90825.742   -8453.5564
4200  0.042           100.4224    0.0033388115  0.0046576492  2.6768655     271.41166   -90800.511   -8949.5399
4400  0.044           100.76203   0.0020228411  0.0013959121  2.8269948     272.32956   -90775.407   -9434.7119
4600  0.046           100.34395   0.0078744042  0.010627008   2.9866466     271.19963   -90746.818   -10017.16
4800  0.048           100.78466  -0.0048295607 -0.0026271578  3.1341045     272.39073   -90719.121   -10422.159
5000  0.05            99.480561  -0.0030329083 -0.0037442139  3.2913658     268.86615   -90685.277   -10948.629
5200  0.052           101.00327   0.00074903844 0.0043336971  3.4525223     272.98157   -90657.621   -11525.35
5400  0.054           100.13803   0.016387601   0.014929523   3.6211633     270.64308   -90622.075   -12174.935
5600  0.056           100.25303  -0.0029927672 -0.0042984866  3.7703062     270.9539    -90587.723   -12543.383
5800  0.058           99.55017   -0.0043935302 -0.0047477228  3.9249535     269.05428   -90549.705   -13052.708
6000  0.06            99.381551   0.0083133708  0.001882312   4.0851167     268.59855   -90511.71    -13651.041
6200  0.062           99.636322   0.0022154217  0.0010137109  4.2437773     269.28713   -90473.411   -14156.688
6400  0.064           99.666167   0.0048441264 -0.0013881125  4.4029722     269.36779   -90433.071   -14688.094
```
C:\Users\INV\AppData\Local\Temp\Mxt212\RemoteFiles\132092_2_ UNIX   Plain text   1179 lines   Row #1   Col #1

1.4 Log LAMMPS Optimasi TiAl Nanorods Temperatur 200 K

Step	Lx	Ly	Lz	Press	Pxx	Pyy	Pzz	PotEng	Temp
0	80.365905	80.365905	123.59946	723.97867	721.55668	726.79532	723.584	-91320.133	200
100	80.441434	80.441434	123.71562	218.00276	440.14579	313.75308	-99.890594	-91052.496	100.49978
200	80.483366	80.483366	123.78011	-787.43387	-333.59266	-454.28249	-1574.4265	-91035.32	95.252692
300	80.454505	80.454505	123.73572	-481.63395	-78.924838	-274.68569	-1091.2913	-91053.695	102.86035
400	80.425635	80.425635	123.69132	32.527967	380.97607	151.09245	-434.48462	-91042.943	99.795658
500	80.412878	80.412878	123.6717	53.012458	340.75305	232.95267	-414.66835	-91046.413	102.09321
600	80.407409	80.407409	123.66329	-62.075406	132.60771	106.4015	-425.23543	-91042.991	101.87267
700	80.382231	80.382231	123.62457	19.412337	173.35856	194.3731	-309.49464	-91038.225	101.17009
800	80.353021	80.353021	123.57964	86.861319	133.15401	260.16254	-132.73259	-91043.08	104.04461
900	80.33636	80.33636	123.55402	90.64251	53.365759	244.90538	-26.343605	-91039.602	103.84953
1000	80.308106	80.308106	123.51057	119.01153	31.234612	282.96135	42.838617	-91039.076	104.74628
1100	80.2936	80.2936	123.48826	-25.167273	-110.45531	25.916517	9.0369734	-91034.065	103.99777
1200	80.274648	80.274648	123.45911	-150.17082	-193.0377	-184.72442	-72.750337	-91035.198	105.53513
1300	80.244326	80.244326	123.41248	-109.48026	-169.11729	-195.50596	36.182463	-91030.159	104.79159
1400	80.221772	80.221772	123.37779	-75.99737	-161.51765	-259.32953	192.85507	-91032.768	106.87673
1500	80.195458	80.195458	123.33732	60.321639	-7.9945112	-214.16193	403.12135	-91030.817	107.27912
1600	80.180715	80.180715	123.31464	105.44318	12.912838	-210.34998	513.76668	-91028.252	107.45586
1700	80.166112	80.166112	123.29219	21.659534	-125.42394	-271.57732	461.97986	-91027.069	108.14191
1800	80.149826	80.149826	123.26714	0.083500795	-181.6374	-315.64603	497.53394	-91021.944	107.38292
1900	80.141727	80.141727	123.25468	-48.246207	-299.18146	-296.55089	450.99373	-91024.231	109.36067
2000	80.134294	80.134294	123.24325	-52.10791	-396.20861	-244.12226	484.00714	-91019.238	108.65075
2100	80.128921	80.128921	123.23499	52.789367	-334.58109	-121.36548	614.31467	-91021.548	110.63965
2200	80.130051	80.130051	123.23673	96.303608	-253.26431	-74.034622	616.20976	-91017.679	110.34667
2300	80.134431	80.134431	123.24346	-24.087523	-368.13325	-204.63875	500.50943	-91017.226	111.3181
2400	80.138271	80.138271	123.24937	-2.3555161	-289.392	-209.4015	491.72695	-91015.738	111.90913
2500	80.144873	80.144873	123.25952	65.299642	-183.92723	-164.0557	543.88185	-91014.991	112.77309
2600	80.163103	80.163103	123.28756	50.01809	-115.30222	-204.49609	469.85258	-91012.537	113.01015
2700	80.180238	80.180238	123.31391	-42.318325	-90.556488	-314.34741	277.94892	-91009.344	112.97169
2800	80.206716	80.206716	123.35463	-176.65959	-226.32554	-413.66432	110.01109	-91007.98	113.61191
2900	80.221449	80.221449	123.37729	-117.52149	-103.39488	-314.81782	65.648234	-91010.358	115.63333
3000	80.235542	80.235542	123.39897	35.233794	14.720373	-125.89536	216.87637	-91004.21	114.50217
3100	80.255266	80.255266	123.4293	197.39637	169.79961	122.13839	300.2511	-91003.472	115.37469
3200	80.279144	80.279144	123.46603	209.5063	188.5171	235.93916	204.06263	-91005.959	117.45196

1.5 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 200 K

Step	v_strain	Temp	v_p2	v_p3	v_p4	KinEng	PotEng	Press
0	1.7257401e-15	199.09814	-0.0051246513	-0.022764393	0.026834247	538.10261	-90772.769	3.5159925
100	0.001	200.41579	-0.010848589	-0.0014713791	0.075624765	541.66384	-90775.678	-211.01599
200	0.002	199.07687	0.0029749916	-0.006217646	0.13881331	538.04512	-90771.165	-451.90217
300	0.003	199.92589	-0.004953227	0.0022257653	0.16981756	540.33977	-90772.377	-556.967
400	0.004	200.71253	-0.011354064	-0.0023273758	0.21013143	542.46582	-90773.189	-654.83329
500	0.005	199.88385	0.022556484	0.011207368	0.29300641	540.22616	-90769.45	-1089.2342
600	0.006	200.52546	-0.0097792033	-0.013866461	0.30478693	541.96024	-90769.476	-937.13755
700	0.007	201.12528	-0.0050816228	0.0032113885	0.3657148	543.58136	-90769.137	-1212.8152
800	0.008	200.97161	0.026516882	0.016839453	0.44591537	543.16605	-90766.555	-1630.9587
900	0.009	201.54354	-0.014920686	-0.016780766	0.45626827	544.71181	-90765.738	-1415.2227
1000	0.01	199.70023	-0.0044756035	0.0075898968	0.51403857	539.72989	-90758.128	-1723.8429
1100	0.011	201.19151	0.0032729916	-0.0085791378	0.57170783	543.76036	-90759.325	-1888.0056
1200	0.012	201.97183	-0.0024533891	0.0041917699	0.62222809	545.86933	-90758.356	-2079.8882
1300	0.013	201.91259	0.0077620242	0.0068397489	0.68683608	545.70924	-90754.876	-2338.1262
1400	0.014	202.49466	-0.0042374408	-0.0037113066	0.73394899	547.2824	-90752.923	-2420.0008
1500	0.015	201.94341	0.017084672	0.021109585	0.80598137	545.79253	-90747.611	-2813.9188
1600	0.016	203.09673	-0.010470485	-0.0097496022	0.83761522	548.9096	-90746.656	-2724.6505
1700	0.017	200.80238	0.011873253	0.010682264	0.90962859	542.70867	-90736.145	-3107.2804
1800	0.018	200.58715	-0.00063121309	-0.00039375244	0.95916636	542.12696	-90730.988	-3193.8047
1900	0.019	201.59736	-0.0025806129	-0.0085974207	1.0151345	544.85726	-90728.866	-3346.5216
2000	0.02	200.78928	-0.004000111	0.013444645	1.0859848	542.67327	-90721.555	-3651.4311
2100	0.021	200.43476	-0.0056664594	-0.021318672	1.1263387	541.7151	-90715.167	-3664.5119
2200	0.022	200.89284	-0.0056602645	-0.001362966	1.2040206	542.95315	-90710.704	-3989.9911
2300	0.023	202.54742	0.007601918	0.024093414	1.2746147	547.42498	-90709.188	-4354.3668
2400	0.024	201.83273	-0.00068392548	-0.024350805	1.315982	545.49338	-90700.941	-4303.1576
2500	0.025	201.29079	0.0012482439	0.017379165	1.3962258	544.0287	-90692.891	-4716.1773
2600	0.026	200.52875	0.01049665	0.010823478	1.464434	541.96913	-90683.925	-4952.5137
2700	0.027	201.04098	-0.01130504	-0.01703312	1.5092857	543.35353	-90678.063	-4936.4917
2800	0.028	201.1221	0.0036003066	0.014086891	1.5895099	543.57279	-90670.744	-5357.3237
2900	0.029	199.91217	0.0026254876	-0.0067093974	1.6432603	540.30271	-90659.624	-5463.9212
3000	0.03	199.6048	-0.0047360415	-0.0046646003	1.7078316	539.47196	-90650.605	-5661.4365
3100	0.031	201.84289	-0.0094065375	-0.0025515636	1.7777268	545.52086	-90648.131	-5885.8958
3200	0.032	200.93107	0.0033047684	-0.0052640117	1.8467129	543.05649	-90636.831	-6149.179

1.6 Log LAMMPS Optimasi TiAl Nanorods Temperatur 300 K

Step	Lx Ly	Lz	Press	Pxx	Pyy	Pzz	PotEng	Temp
0	80.365905	80.365905	123.59946	1085.6023	1081.9001	1089.7581	1085.1485	-91320.133	300
100	80.557665	80.557665	123.89438	-1532.4451	-1052.0314	-1203.9145	-2341.3895	-90916.409	149.86917
200	80.498344	80.498344	123.80314	-377.22868	211.53596	64.66385	-1407.8858	-90894.582	142.99725
300	80.446573	80.446573	123.72352	523.14484	959.98047	717.01674	-107.56269	-90922.284	154.56905
400	80.471792	80.471792	123.76231	-309.98114	202.30413	-84.682461	-1047.5651	-90904.798	149.48157
500	80.443715	80.443715	123.71913	-174.96021	262.12108	127.77383	-914.77553	-90910.009	152.9269
600	80.414605	80.414605	123.67436	156.33435	398.15488	367.8115	-296.96334	-90905.546	152.8393
700	80.385001	80.385001	123.62883	130.39388	349.66969	369.41053	-327.89857	-90898.518	151.80941
800	80.354052	80.354052	123.58123	-53.694829	49.351247	196.19626	-406.632	-90904.519	155.65419
900	80.328306	80.328306	123.54163	-37.233434	-41.167113	189.1532	-259.68638	-90899.815	155.55718
1000	80.286637	80.286637	123.47755	26.311499	-64.598612	253.94212	-110.40901	-90897.758	156.42232
1100	80.260956	80.260956	123.43805	-89.544938	-186.62077	-23.631659	-58.382385	-90890.917	155.56939
1200	80.225254	80.225254	123.38314	-62.982698	-133.78107	-128.77245	73.605433	-90893.875	158.32542
1300	80.184033	80.184033	123.31975	6.726513	-99.301761	-139.60889	259.09018	-90885.417	156.87385
1400	80.150387	80.150387	123.268	26.555586	-117.93682	-220.6	418.20358	-90889.522	160.06904
1500	80.121809	80.121809	123.22405	9.0864731	-102.71226	-348.92144	478.89312	-90887.698	161.07768
1600	80.102343	80.102343	123.19411	-45.956581	-183.62379	-457.09215	502.8462	-90882.04	160.67442
1700	80.077674	80.077674	123.15617	-41.934845	-249.20573	-435.72244	559.12363	-90880.766	161.89589
1800	80.042449	80.042449	123.102	166.5771	-107.95517	-284.50786	892.19433	-90873.833	161.02626
1900	80.048015	80.048015	123.11056	-246.0088	-572.3835	-578.69279	413.04989	-90875.766	163.43352
2000	80.021738	80.021738	123.07014	72.184266	-435.87452	-219.98178	872.4091	-90869.032	162.64157
2100	80.005551	80.005551	123.04525	338.09533	-204.01536	52.043457	1166.2579	-90871.698	165.33235
2200	80.04017	80.04017	123.09849	-355.84475	-789.9006	-576.36807	298.73443	-90865.092	164.58367
2300	80.015189	80.015189	123.06007	123.87944	-365.2233	-186.94706	923.80869	-90865.814	166.53709
2400	80.021476	80.021476	123.06974	155.50437	-250.22168	-172.62338	889.35816	-90862.644	167.08378
2500	80.051377	80.051377	123.11573	-227.8407	-554.34206	-550.97514	421.79509	-90860.536	168.01429
2600	80.054909	80.054909	123.12116	148.69292	-106.57783	-211.85255	764.50915	-90859.475	169.32887
2700	80.087638	80.087638	123.1715	-116.85608	-238.65601	-514.1984	402.28616	-90854.625	169.25789
2800	80.106996	80.106996	123.20127	58.582841	-95.739482	-282.18784	553.67584	-90852.643	170.20441
2900	80.128962	80.128962	123.23505	161.08731	109.24739	-154.9509	528.96544	-90855.713	173.0877
3000	80.169722	80.169722	123.29774	-176.17094	-230.28665	-383.26512	85.038963	-90845.529	171.03636
3100	80.189716	80.189716	123.32849	173.03082	101.97476	63.066914	354.0508	-90846.079	172.93578
3200	80.233334	80.233334	123.39557	22.195572	-6.7645972	38.662187	34.689127	-90848.475	175.56436

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1.7 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 300 K

Step	v_strain	Temp	v_p2	v_p3	v_p4	KinEng	PotEng	Press
0	-2.3046388e-16	299.83924	0.028389556	0.008451062	0.024168942	810.37562	-90500.585	-203.3652
100	0.001	300.21589	-0.02581007	-0.03257544	0.0054227253	811.3936	-90500.959	176.54262
200	0.002	300.08372	0.024728074	0.033245314	0.108183	811.03639	-90499.787	-553.85464
300	0.003	301.24351	-0.014570416	-0.020658029	0.11547433	814.17095	-90501.896	-267.48627
400	0.004	301.36426	0.0074532402	0.0048065371	0.17755577	814.49729	-90500.993	-632.71848
500	0.005	299.6728	-0.0032547055	-0.0020468306	0.21019932	809.9258	-90494.976	-682.9926
600	0.006	302.13786	0.011582319	0.017784249	0.27694223	816.5881	-90500.031	-1021.0293
700	0.007	300.45943	-0.010522892	-0.010859729	0.30247508	812.05182	-90493.667	-936.97485
800	0.008	301.22113	2.5027167e-05	0.0024384493	0.35950126	814.11047	-90493.707	-1206.5491
900	0.009	298.8635	0.0002952079	-0.009360778	0.39476433	807.7385	-90485.158	-1285.6625
1000	0.01	301.94039	0.012044736	0.022627302	0.46576677	816.0544	-90491.04	-1668.1294
1100	0.011	300.8914	-0.0089533907	-0.026564044	0.48061362	813.21929	-90485.624	-1483.654
1200	0.012	302.13209	0.021968684	0.011018552	0.56035934	816.57251	-90486.153	-1977.8219
1300	0.013	298.88319	-0.029995568	-0.0061516465	0.59161961	807.79172	-90474.335	-1851.5747
1400	0.014	299.41267	-0.0046608226	-0.0032522126	0.6485707	809.22274	-90472.507	-2135.5256
1500	0.015	301.36486	0.02103789	-0.0060368794	0.71920798	814.49891	-90474.305	-2447.3633
1600	0.016	301.41842	-0.009586152	-0.0028986079	0.7533723	814.64368	-90470.734	-2469.6251
1700	0.017	302.9934	3.709245e-05	0.024634845	0.82664454	818.90036	-90471.008	-2837.7216
1800	0.018	302.15814	0.00048445048	-0.01537076	0.86601138	816.6429	-90464.53	-2837.0836
1900	0.019	300.63759	0.0042894471	-0.0049532563	0.92235292	812.53333	-90456.005	-3072.297
2000	0.02	302.07559	-0.020994772	0.01604879	0.98643743	816.4198	-90455.155	-3271.6382
2100	0.021	301.95982	0.0224086	-0.014698874	1.0413039	816.10692	-90449.897	-3496.7119
2200	0.022	301.26616	-0.0018304807	-0.0069497488	1.0958605	814.23216	-90442.807	-3623.601
2300	0.023	302.61212	-0.012180374	0.030412322	1.1618903	817.86988	-90440.854	-3933.7408
2400	0.024	302.99157	-0.0036721873	-0.016006197	1.2087283	818.89544	-90436.066	-3963.4996
2500	0.025	302.77751	0.016871247	0.0089367241	1.2894056	818.31689	-90429.338	-4384.0452
2600	0.026	302.67069	0.0013683786	0.0055395054	1.3418323	818.0282	-90422.641	-4495.8005
2700	0.027	299.36234	-0.015045797	-0.0092247104	1.3871066	809.08671	-90406.983	-4543.0671
2800	0.028	302.38246	0.017887742	0.0043441807	1.4712983	817.24919	-90408.124	-4978.4341
2900	0.029	302.10459	-0.014104127	-0.0088661638	1.5140929	816.49818	-90400.088	-4970.4087
3000	0.03	301.42501	0.0064164723	0.015218987	1.5972088	814.66149	-90390.588	-5396.1474
3100	0.031	302.94991	-0.0029181072	-0.0026554353	1.6507915	818.78282	-90386.804	-5484.0599
3200	0.032	300.98012	0.010048826	-0.01015912	1.7025124	813.45908	-90373.207	-5674.6738

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1.8 Log LAMMPS Optimasi TiAl Nanorods Temperatur 400 K

Step	Lx	Ly	Lz	Press	Pxx	Pyy	Pzz	PotEng	Temp
0	80.365905	80.365905	123.59946	1447.2258	1442.2436	1452.7209	1446.7131	-91320.133	400
100	80.641286	80.641286	124.02298	-2627.6515	-1957.4626	-2128.9549	-3796.5369	-90779.245	198.93903
200	80.480627	80.480627	123.7759	842.48095	1471.4036	1301.3629	-245.32365	-90755.424	191.29344
300	80.521442	80.521442	123.83867	-392.95382	229.94036	-53.936386	-1354.8654	-90787.911	204.87984
400	80.477989	80.477989	123.77184	50.359989	671.21434	332.93852	-853.07289	-90768.366	199.56727
500	80.465102	80.465102	123.75202	-154.98299	367.63194	211.36525	-1043.9462	-90774.541	203.83658
600	80.430708	80.430708	123.69912	65.611225	379.97563	347.58442	-530.72637	-90767.912	203.49043
700	80.387979	80.387979	123.63341	129.74467	412.83481	432.24066	-455.84147	-90759.511	202.42441
800	80.350181	80.350181	123.57528	-139.4752	-2.1892015	158.84314	-575.07955	-90765.84	206.97689
900	80.310398	80.310398	123.51409	66.756028	78.137373	338.42528	-216.29457	-90760.892	207.31743
1000	80.272411	80.272411	123.45567	-193.66733	-283.70904	86.281281	-383.57423	-90755.7	207.56157
1100	80.212453	80.212453	123.36346	179.3965	39.082639	228.30226	270.80459	-90748.615	207.17512
1200	80.196126	80.196126	123.33835	-343.7621	-418.24471	-419.43586	-193.60574	-90752.847	210.93404
1300	80.118078	80.118078	123.21831	275.89671	117.00581	69.31217	641.37214	-90741.246	208.88096
1400	80.100859	80.100859	123.19183	-221.30704	-393.78934	-500.04157	229.9098	-90745.586	212.69935
1500	80.044948	80.044948	123.10584	168.69837	-3.7924365	-275.71612	785.60366	-90745.001	214.73906
1600	80.034385	80.034385	123.0896	-227.67656	-411.55583	-708.57636	437.1025	-90735.074	213.29258
1700	79.989664	79.989664	123.02082	105.4238	-185.74378	-407.35174	909.36693	-90735.772	215.82127
1800	79.956346	79.956346	122.96957	69.280243	-256.14561	-470.63323	934.61956	-90726.01	214.42047
1900	79.963988	79.963988	122.98133	-335.62143	-737.21521	-755.07007	485.421	-90727.276	217.16846
2000	79.911393	79.911393	122.90044	471.49156	-195.47582	68.784515	1541.166	-90720.035	216.74194
2100	79.931365	79.931365	122.93115	-212.17254	-799.94099	-531.13953	694.56289	-90720.476	219.18536
2200	79.929239	79.929239	122.92789	-6.3860477	-576.22265	-344.88383	901.94834	-90715.554	219.63456
2300	79.91739	79.91739	122.90966	154.52692	-449.10373	-268.31678	1181.0013	-90713.845	221.27366
2400	79.942863	79.942863	122.94884	-180.17168	-649.77677	-555.38573	664.64746	-90707.767	221.30346
2500	79.938772	79.938772	122.94255	260.31771	-198.79652	-211.85794	1191.6076	-90707.189	223.36899
2600	79.984018	79.984018	123.01213	-194.0278	-492.74955	-612.28849	522.95465	-90704.328	224.58798
2700	79.998226	79.998226	123.03398	35.322857	-166.19078	-461.39497	733.55431	-90701.39	225.78645
2800	80.020047	80.020047	123.06754	264.41981	21.31906	-160.54662	932.48698	-90698.059	226.84062
2900	80.077553	80.077553	123.15599	-255.24529	-310.96592	-618.42817	163.65823	-90697.785	229.02853
3000	80.092754	80.092754	123.17936	140.16211	36.846884	-144.01936	527.65882	-90691.392	228.93969
3100	80.136694	80.136694	123.24694	125.25793	27.546802	-35.296753	383.52375	-90687.39	229.7611
3200	80.196553	80.196553	123.339	-193.68863	-211.40254	-173.38694	-196.27642	-90691.471	233.54366

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1.9 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 400 K

Step	v_strain	Temp	v_p2	v_p3	v_p4	KinEng	PotEng	Press
0	1.2691701e-15	401.24782	0.015600466	0.033496674	-0.0067732997	1084.4526	-90229.076	-141.07947
200	0.002	398.21169	0.0091080576	0.017884032	0.071916726	1076.2469	-90219.43	-329.69605
400	0.004	398.47568	-0.028272431	-0.043987904	0.098077985	1076.9604	-90217.797	-86.058833
600	0.006	398.19947	-0.023097162	-0.0071839686	0.21077983	1076.2139	-90213.945	-601.66234
800	0.008	402.29827	0.0081231038	-0.010096926	0.32000694	1087.2917	-90221.22	-1060.1104
1000	0.01	401.07027	0.0057873645	0.020863016	0.4230699	1083.9728	-90213.357	-1499.0676
1200	0.012	400.0601	0.017236492	0.0015130451	0.50390147	1081.2426	-90205.341	-1742.17
1400	0.014	404.43821	0.0084394603	0.020404096	0.60839846	1093.0753	-90211.083	-2124.1401
1600	0.016	400.11804	0.02042321	0.001528775	0.70296971	1081.3992	-90192.5	-2416.4056
1800	0.018	404.01401	0.0084103977	0.027000572	0.82153645	1091.9288	-90195.146	-2856.4914
2000	0.02	403.29242	0.027580849	0.02084062	0.9362294	1089.9786	-90184.422	-3282.1695
2200	0.022	401.95829	-0.00053126238	0.015352183	1.0330902	1086.3728	-90171.078	-3493.0372
2400	0.024	401.54451	-5.4025195e-05	0.00024487575	1.143157	1085.2545	-90159.21	-3811.1595
2600	0.026	402.67223	-0.0092778461	-0.010951394	1.2517014	1088.3024	-90150.417	-4104.907
2800	0.028	401.92222	-0.036884092	-0.04485782	1.3353337	1086.2753	-90135.426	-4178.6391
3000	0.03	401.5296	-0.0071142247	-0.020503661	1.4813687	1085.2142	-90120.276	-4845.8361
3200	0.032	403.02953	-0.013215196	0.015587985	1.6153229	1089.2681	-90108.972	-5392.3189
3400	0.034	405.33158	0.022677837	-0.010671124	1.7524402	1095.4898	-90098.644	-5881.4899
3600	0.036	400.75024	-0.011053391	0.010999022	1.8696762	1083.1078	-90068.437	-6232.0728
3800	0.038	401.48142	0.0001535637	-0.015999297	1.9828921	1085.084	-90051.353	-6556.8212
4000	0.04	399.81137	0.0057852713	0.015310068	2.1299591	1080.5703	-90026.488	-7170.1814
4200	0.042	400.99101	0.012101768	0.00098055087	2.2536578	1083.7586	-90008.035	-7555.8003
4400	0.044	400.62111	-0.0018391413	0.0090026396	2.3800696	1082.7588	-89983.997	-7957.4436
4600	0.046	398.94615	0.015507329	-0.01785306	2.5062307	1078.2319	-89955.138	-8346.2833
4800	0.048	400.63046	-0.012347274	0.015913829	2.6498818	1082.7841	-89933.957	-8844.828
5000	0.05	397.36029	0.0039836009	-0.0055289354	2.7748416	1073.9458	-89897.993	-9244.321
5200	0.052	399.56664	-0.011225459	-0.001399081	2.8957487	1079.9089	-89875.429	-9610.4139
5400	0.054	399.56361	0.0019449656	-0.015417928	3.0337922	1079.9007	-89845.496	-10067.731
5600	0.056	400.205	0.0091427647	0.022261788	3.1863436	1081.6342	-89815.848	-10725.827
5800	0.058	401.76335	0.02215494	0.012267965	3.3226661	1085.8459	-89787.256	-11190.297
6000	0.06	396.4395	0.017726971	0.012000566	3.4449524	1071.4572	-89738.619	-11582.266
6200	0.062	398.02108	0.0094486557	0.010839947	3.5648609	1075.7317	-89707.226	-11950.498
6400	0.064	397.01991	-0.0026509255	0.012354074	3.6993156	1073.0259	-89667.381	-12363.396

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1.10 Log LAMMPS Optimasi TiAl Nanorods Temperatur 500 K

Step	Lx	Ly Lz	Press	Pxx	Pyy	Pzz	PotEng	Temp
0	80.365905	80.365905	123.59946	1808.8494	1802.5871	1815.6837	1808.2776	-91320.133	500
100	80.699337	80.699337	124.11226	-3206.5052	-2401.4094	-2587.5885	-4630.5179	-90642.697	247.82837
200	80.492417	80.492417	123.79403	1409.0578	2115.1743	1923.4113	188.58759	-90615.986	239.33888
300	80.57687	80.57687	123.92392	-1032.0336	-254.09952	-577.2266	-2264.7747	-90653.024	255.01572
400	80.475378	80.475378	123.76782	647.50586	1329.9917	944.41998	-331.89407	-90633.163	249.91267
500	80.506389	80.506389	123.81552	-731.6858	-87.700779	-262.34589	-1845.0107	-90637.756	254.11727
600	80.416451	80.416451	123.6772	597.03361	925.07834	890.94782	-24.925335	-90631.708	254.42835
700	80.411587	80.411587	123.66972	-439.83743	-77.334792	-58.575385	-1183.6021	-90619.343	252.45459
800	80.318746	80.318746	123.52693	320.65666	443.86473	616.83794	-98.732682	-90628.112	258.36939
900	80.312157	80.312157	123.5168	-324.44214	-281.88991	2.7291033	-694.16563	-90621.36	258.61062
1000	80.239858	80.239858	123.4056	-9.3159028	-125.09903	282.37859	-185.22726	-90615.018	258.92134
1100	80.176714	80.176714	123.30849	128.77454	-51.303015	165.79707	271.82956	-90606.988	258.74912
1200	80.158525	80.158525	123.28052	-413.34579	-508.00898	-510.72655	-221.30183	-90612.181	263.4441
1300	80.060892	80.060892	123.13036	380.2979	166.81527	122.92627	851.15216	-90596.844	260.46792
1400	80.053303	80.053303	123.11869	-376.19122	-578.40207	-692.45282	142.28123	-90600.927	264.81882
1500	79.972375	79.972375	122.99423	352.76321	112.75826	-169.77472	1115.3061	-90601.109	267.58332
1600	79.980722	79.980722	123.00706	-499.30105	-726.49828	-1024.9741	253.56919	-90588.52	265.78477
1700	79.901342	79.901342	122.88498	438.3455	47.490589	-208.90889	1476.4548	-90591.472	269.59578
1800	79.898958	79.898958	122.88131	-417.29072	-762.36259	-1005.0857	515.57616	-90577.538	267.31835
1900	79.86098	79.86098	122.82291	284.76844	-244.28144	-272.35574	1370.9425	-90579.705	270.93485
2000	79.862678	79.862678	122.82552	-177.32636	-885.21087	-583.67913	936.91092	-90569.306	269.91311
2100	79.82277	79.82277	122.76414	367.09204	-334.27737	-63.665677	1499.2192	-90572.018	273.7528
2200	79.870848	79.870848	122.83808	-460.92351	-1087.4596	-856.39518	561.08429	-90566.318	274.46514
2300	79.823707	79.823707	122.76558	486.20418	-226.37762	-33.500525	1718.4907	-90563.405	276.20786
2400	79.875135	79.875135	122.84468	-342.74773	-902.40007	-778.4438	652.60068	-90554.451	275.71357
2500	79.859025	79.859025	122.8199	423.28951	-113.44518	-130.29981	1513.6135	-90553.631	278.2742
2600	79.921217	79.921217	122.91555	-331.08419	-686.65118	-806.80355	500.20215	-90550.952	280.07531
2700	79.928172	79.928172	122.92624	214.4873	-60.746517	-342.82059	1047.029	-90549.834	282.56196
2800	79.963472	79.963472	122.98053	74.63047	-199.02422	-401.192	824.10763	-90543.267	282.96117
2900	80.020399	80.020399	123.06809	-117.34282	-199.56953	-563.04851	410.58957	-90542.645	285.59186
3000	80.048388	80.048388	123.11113	91.137044	-23.020687	-220.94468	517.3765	-90537.929	286.72227
3100	80.095173	80.095173	123.18308	106.65671	32.060347	-98.722158	386.63194	-90527.927	285.86
3200	80.157189	80.157189	123.27846	-72.407519	-88.539593	-97.029938	-31.653026	-90534.24	291.05096

1.11 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 500 K

Step	v_strain	Temp	v_p2	v_p3	v_p4	KinEng	PotEng	Press
0	-2.3077303e-16	499.15142	0.018731073	0.0051728853	-0.010461893	1349.0567	-89947.149	-44.806884
200	0.002	500.72652	-0.020822212	0.0020142292	0.036366683	1353.3137	-89949.555	-58.529
400	0.004	501.4507	-0.0082526479	-0.025810691	0.12627065	1355.271	-89948.798	-307.3577
600	0.006	500.43177	-0.025878042	-0.014575486	0.19871981	1352.5171	-89942.6	-527.55428
800	0.008	500.5477	-0.0071925751	-0.022435436	0.29039589	1352.8305	-89938.835	-869.22627
1000	0.01	502.08135	-0.00086395923	0.0011134522	0.39762598	1356.9755	-89938.088	-1326.2516
1200	0.012	502.2123	-0.031446248	-0.015021463	0.48629769	1357.3294	-89932.823	-1466.0999
1400	0.014	501.74773	0.001653903	-0.0021114372	0.6018172	1356.0738	-89925.158	-2004.5322
1600	0.016	502.65655	-0.01252116	-0.0098402196	0.68930579	1358.5301	-89920.305	-2223.148
1800	0.018	501.53482	-0.021988347	-0.025871886	0.78301759	1355.4983	-89909.112	-2450.5245
2000	0.02	503.1398	-0.015727291	-0.0046799848	0.89555479	1359.8361	-89904.343	-2917.1584
2200	0.022	502.07077	-0.0043915384	-0.012232746	1.0130316	1356.9469	-89891.438	-3321.3577
2400	0.024	503.87137	0.028719646	0.03039844	1.1576306	1361.8133	-89885.286	-4055.8289
2600	0.026	500.9227	0.011358436	-0.019673632	1.2476185	1353.844	-89865.16	-4131.011
2800	0.028	500.62483	-0.025997346	-0.0036929361	1.3591671	1353.0389	-89851.157	-4431.5895
3000	0.03	500.65183	-0.02293856	-0.042307923	1.452474	1353.1119	-89836.918	-4624.0919
3200	0.032	500.08398	-0.026693374	-0.028109201	1.5780042	1351.5772	-89819.963	-5077.6322
3400	0.034	503.67282	0.043534053	0.048046341	1.7493328	1361.2767	-89812.961	-6136.3774
3600	0.036	501.89175	0.02289155	0.021616509	1.8588885	1356.463	-89790.225	-6344.655
3800	0.038	503.3074	-0.0018103971	0.010790991	1.9738911	1360.2891	-89774.858	-6609.5722
4000	0.04	503.67387	-0.016443331	-0.027937635	2.0701765	1361.2796	-89755.391	-6752.6519
4200	0.042	498.75316	-0.0069323686	-0.0028027158	2.2221643	1347.9804	-89720.305	-7374.7641
4400	0.044	497.37992	0.026495795	0.022144632	2.3643352	1344.2689	-89693.577	-8043.2519
4600	0.046	504.27614	0.021011231	0.025094954	2.4919609	1362.9073	-89687.807	-8460.2237
4800	0.048	497.22998	-0.0045863726	0.0080484175	2.6012809	1343.8637	-89642.889	-8682.4764
5000	0.05	498.4734	0.01028598	-0.010246809	2.727509	1347.2242	-89619.121	-9091.8274
5200	0.052	498.09286	0.0050935398	-0.0064826693	2.8539596	1346.1957	-89589.572	-9508.5683
5400	0.054	496.57482	-0.011738131	0.014860389	2.9812427	1342.093	-89555.546	-9947.8833
5600	0.056	499.06015	0.010829149	-0.0061601264	3.1082958	1348.81	-89530.91	-10376.549
5800	0.058	494.7395	-0.0055114789	0.0078503159	3.2411215	1337.1326	-89486.541	-10811.534
6000	0.06	498.73266	-0.0030153157	0.0028241854	3.3721935	1347.9249	-89463.143	-11240.008
6200	0.062	498.46644	-0.0027768236	-0.0053874878	3.4789616	1347.2054	-89426.71	-11569.324
6400	0.064	499.84351	0.013012913	0.036405137	3.6403143	1350.9272	-89393.313	-12299.108

1.12 Log LAMMPS Optimasi TiAl Nanorods Temperatur 600 K

Step	Lx	Ly	Lz	Press	Pxx	Pyy	Pzz	PotEng	Temp
0	80.365905	80.365905	123.59946	2170.473	2162.9305	2178.6464	2169.8421	-91320.133	600
100	80.740872	80.740872	124.17614	-3455.552	-2554.0843	-2749.9644	-5062.6072	-90506.989	296.56821
200	80.528507	80.528507	123.84954	1390.3464	2208.6593	1993.7195	-31.339578	-90476.258	286.83678
300	80.595217	80.595217	123.95213	-914.32237	-51.227034	-415.09371	-2276.6464	-90520.304	305.60225
400	80.509494	80.509494	123.82029	384.98741	1174.4947	750.16414	-769.69661	-90496.875	299.50632
500	80.505218	80.505218	123.81372	-452.83169	239.95519	43.508505	-1641.9588	-90503.841	305.19314
600	80.438035	80.438035	123.71039	269.19686	658.9915	619.03733	-470.43824	-90493.318	304.2896
700	80.394664	80.394664	123.64369	-195.25819	173.16263	192.91692	-951.85413	-90480.687	302.85731
800	80.317243	80.317243	123.52462	54.227448	201.40218	376.4679	-415.18773	-90487.935	308.63964
900	80.280804	80.280804	123.46858	-35.143555	-25.272656	276.28208	-356.44009	-90483.377	310.29928
1000	80.233572	80.233572	123.39594	-409.46955	-514.47858	-81.779121	-632.15094	-90472.058	309.23234
1100	80.121644	80.121644	123.2238	476.44868	222.98151	471.42711	734.93741	-90466.189	310.40585
1200	80.128227	80.128227	123.23392	-638.97093	-756.03418	-742.77499	-418.10363	-90469.972	315.15502
1300	80.011961	80.011961	123.05511	334.93763	61.374045	38.335611	905.10324	-90451.859	311.49298
1400	79.990086	79.990086	123.02146	-77.085446	-349.30335	-475.70426	593.75127	-90456.275	316.5889
1500	79.935573	79.935573	122.93763	-155.73374	-415.23029	-693.9089	641.93799	-90453.054	318.50772
1600	79.893772	79.893772	122.87334	152.64343	-167.50717	-483.92527	1109.3627	-90444.974	318.9905
1700	79.869461	79.869461	122.83595	-344.71201	-732.20426	-1031.673	729.74123	-90443.485	321.65157
1800	79.799465	79.799465	122.7283	299.80256	-171.65309	-427.77992	1498.8407	-90434.033	321.65432
1900	79.82054	79.82054	122.76071	-296.67971	-857.98837	-894.41513	862.36436	-90428.607	323.02998
2000	79.779102	79.779102	122.69698	316.69272	-483.36514	-183.65096	1617.0942	-90421.733	323.87168
2100	79.775	79.775	122.69607	-87.679505	-814.22624	-544.1239	1095.3116	-90421.163	327.06177
2200	79.784572	79.784572	122.70539	44.698186	-699.75056	-458.1183	1291.9634	-90421.563	330.59517
2300	79.786143	79.786143	122.70781	-72.462784	-824.78796	-593.11278	1200.5124	-90412.682	330.70673
2400	79.789729	79.789729	122.71332	263.60928	-417.94486	-277.69323	1486.4659	-90406.494	331.80959
2500	79.829959	79.829959	122.7732	-172.84334	-698.8927	-707.9466	888.30928	-90398.205	332.18649
2600	79.848712	79.848712	122.80404	220.71819	-227.56148	-323.28906	1213.0051	-90399.021	335.84933
2700	79.904464	79.904464	122.88978	-263.31027	-547.17465	-819.11534	576.35919	-90396.981	338.56794
2800	79.906586	79.906586	122.89305	387.47902	71.381442	-148.41733	1239.4729	-90389.913	339.37036
2900	79.987537	79.987537	123.01755	-208.02945	-271.19942	-698.23126	345.34233	-90387.429	341.81159
3000	80.024034	80.024034	123.07368	73.509863	-27.066132	-224.536	472.13173	-90380.487	342.73213
3100	80.065275	80.065275	123.1371	157.18794	104.21883	-67.371201	434.71619	-90371.658	342.85922
3200	80.139469	80.139469	123.25121	-40.066977	-37.887639	-71.609099	-10.704194	-90370.015	345.65655

1.13 Log LAMMPS Uji Tarik TiAl Nanorods Temperatur 600 K

| Step	v_strain	Temp	v_p2	v_p3	v_p4	KinEng	PotEng	Press
0	3.6982708e-15	597.28615	0.021556753	-0.017772293	-0.034801889	1614.2855	-89672.904	103.39143
200	0.002	598.73882	-0.045864234	4.1060337e-05	0.023307404	1618.2116	-89674.542	75.052566
400	0.004	602.99561	0.015580319	0.0080862129	0.14498456	1629.7165	-89683.033	-562.17029
600	0.006	599.28433	-0.016760345	-0.0081599094	0.21668106	1619.686	-89669.258	-639.20268
800	0.008	602.59816	0.0058884819	-0.019270487	0.2822944	1628.6423	-89673.844	-896.37465
1000	0.01	598.99074	0.010165628	0.065747453	0.43742513	1618.8925	-89658.921	-1711.1274
1200	0.012	605.68931	0.0028690753	-0.0040784246	0.47077789	1636.9967	-89670.985	-1565.2285
1400	0.014	601.32183	-0.020768819	-0.0075755699	0.54575585	1625.1927	-89652.576	-1724.7049
1600	0.016	602.40279	-0.03007997	-0.021423811	0.63591263	1628.1142	-89648.197	-1948.0295
1800	0.018	597.72998	0.0098254853	-0.019048189	0.77618379	1615.485	-89627.356	-2556.537
2000	0.02	601.90307	0.016688738	0.034725219	0.90878043	1626.7636	-89629.397	-3200.648
2200	0.022	598.11382	0.03645383	0.022344085	1.0118536	1616.5225	-89609.098	-3568.8385
2400	0.024	599.83155	-6.3797724e-05	-0.010863185	1.0897348	1621.165	-89602.707	-3596.026
2600	0.026	602.81579	-0.053612187	-0.032910721	1.1596735	1629.2305	-89598.66	-3577.1687
2800	0.028	600.52476	-0.0084600283	-0.0099081638	1.3079973	1623.0385	-89579.42	-4298.7637
3000	0.03	597.21222	0.00020884421	0.0095775863	1.4312102	1614.0857	-89556.312	-4803.322
3200	0.032	602.62116	0.039152167	0.011715617	1.5555731	1628.7044	-89555.698	-5354.8031
3400	0.034	601.96752	-0.026283735	0.0059703112	1.6430234	1626.9379	-89537.676	-5409.0331
3600	0.036	598.72271	-0.0027421863	-0.032947877	1.7529896	1618.1681	-89511.442	-5724.3319
3800	0.038	597.40243	-0.0032342112	0.0037698719	1.8738693	1614.5998	-89489.241	-6248.0166
4000	0.04	599.57308	-0.0182161	-0.0080439705	1.989984	1620.4664	-89475.321	-6545.7466
4200	0.042	599.04334	0.016069198	-0.022799037	2.1168105	1619.0347	-89452.622	-7033.6023
4400	0.044	598.4356	-0.016966962	0.015333799	2.2497674	1617.3921	-89428.532	-7493.7807
4600	0.046	599.57902	0.018297293	0.0021694429	2.3788452	1620.4824	-89407.82	-7997.7065
4800	0.048	601.16891	0.023290712	0.021749357	2.529254	1624.7794	-89386.928	-8580.9803
5000	0.05	596.31247	-0.039994426	-0.021991096	2.6006654	1611.6539	-89347.282	-8462.2662
5200	0.052	596.10955	-0.0099231731	-0.026164193	2.746047	1611.1055	-89318.78	-9033.1988
5400	0.054	593.98246	-0.0094751266	0.0044904068	2.870721	1605.3566	-89283.714	-9552.4542
5600	0.056	593.6612	0.011586109	0.0015721995	2.985242	1604.4884	-89252.328	-9994.6678
5800	0.058	598.72797	0.027075684	0.029872959	3.1435588	1618.1823	-89234.105	-10668.358
6000	0.06	596.78544	0.0099633784	-0.010096893	3.2390321	1612.9322	-89195.521	-10796.332
6200	0.062	599.13215	-0.014704233	0.0013275363	3.3667395	1619.2747	-89167.149	-11177.876
6400	0.064	599.46425	0.003292689	0.0051699512	3.5047564	1620.1723	-89132.017	-11710.73

1.14 Fitting Daerah Linier TiAl Nanorods Temperatur 100 K
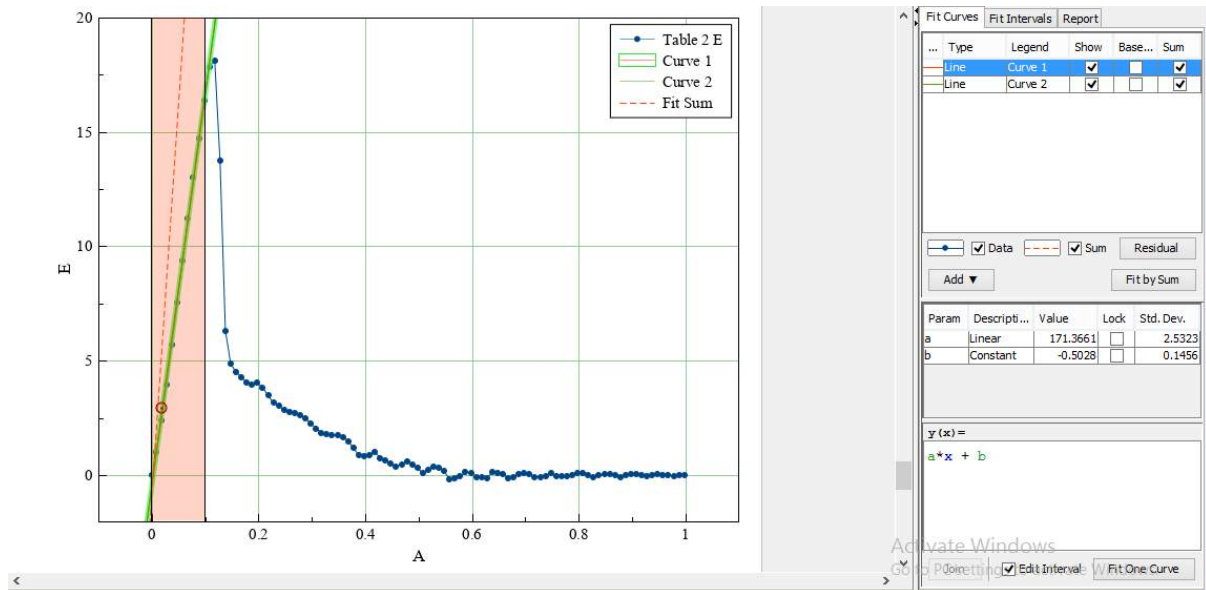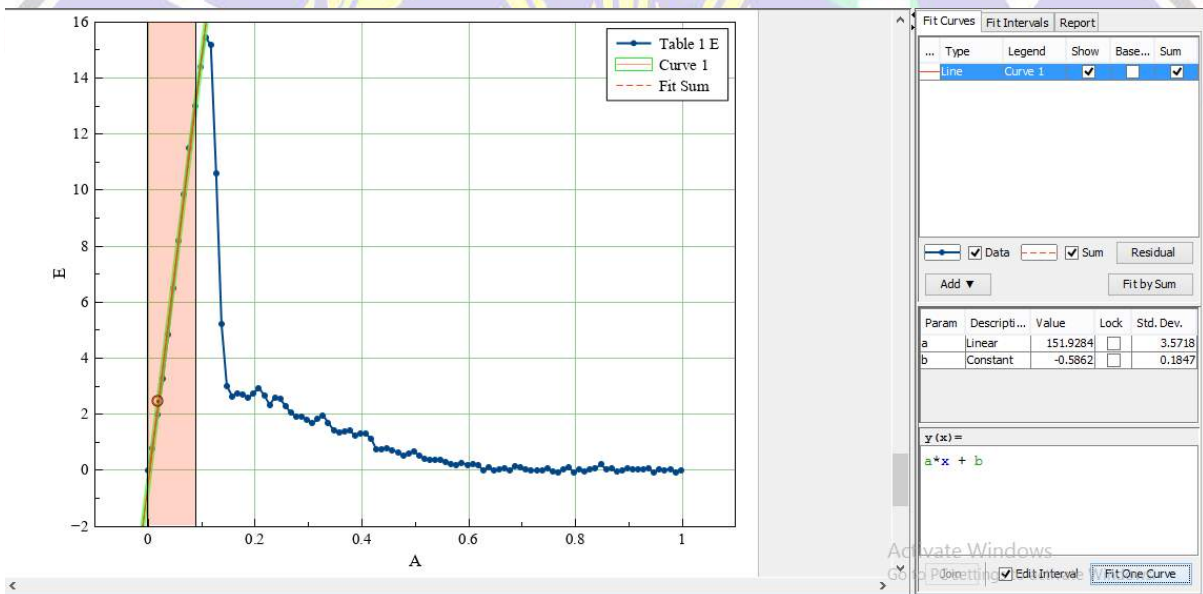

1.15 Fitting Daerah Linier TiAl Nanorods Temperatur 200 K
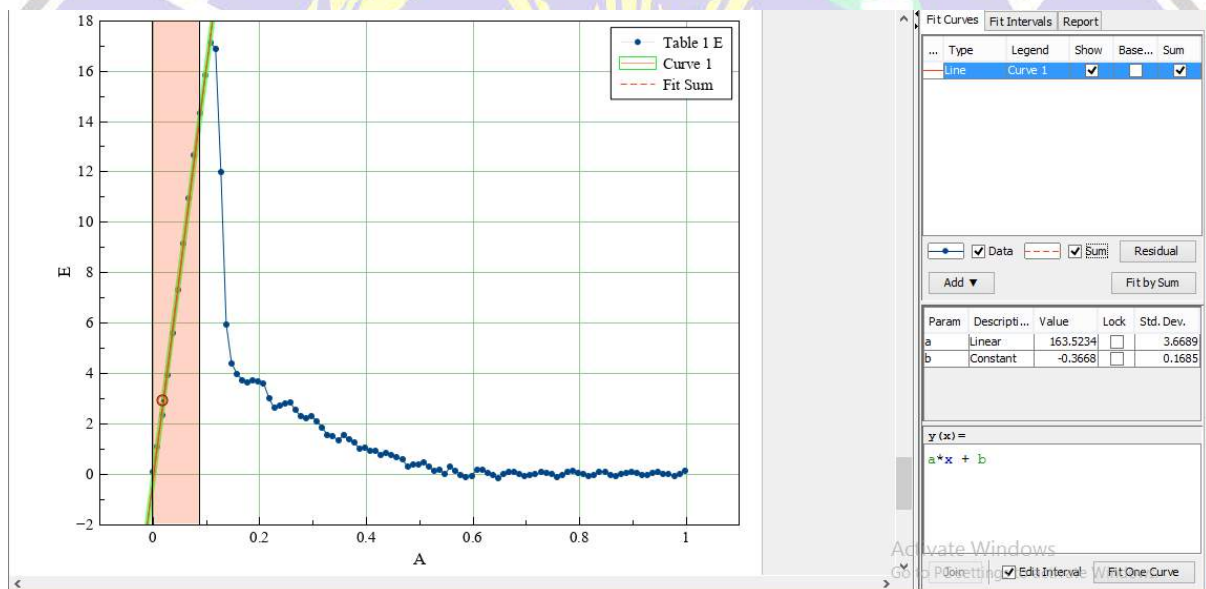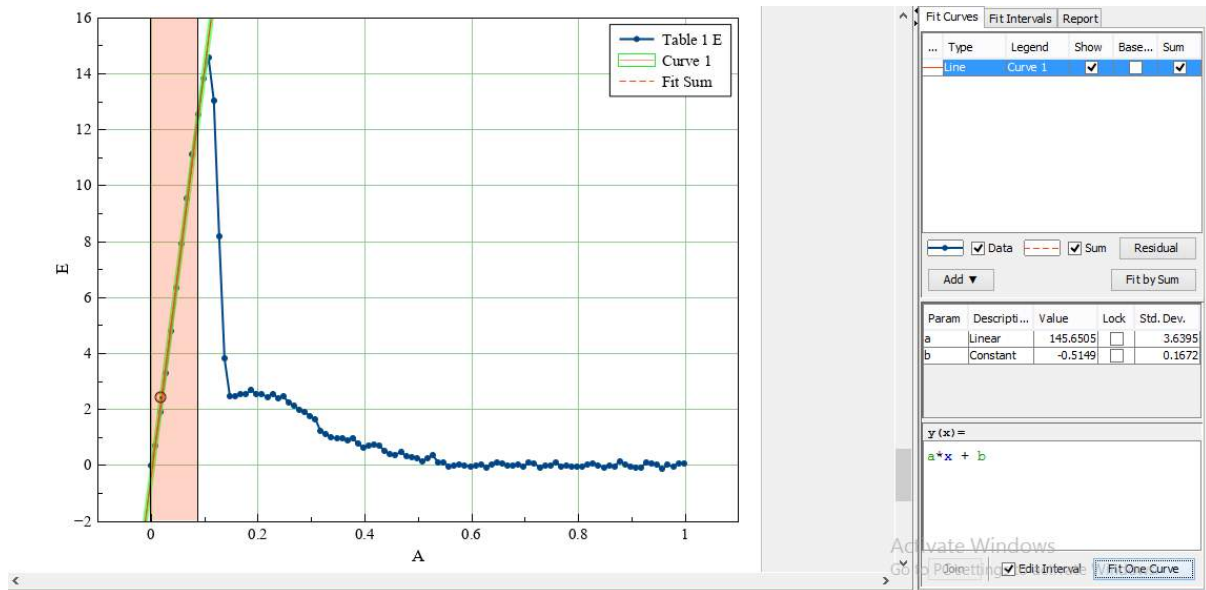
1.17 Fitting Daerah Linier TiAl Nanorods Temperatur 300 K
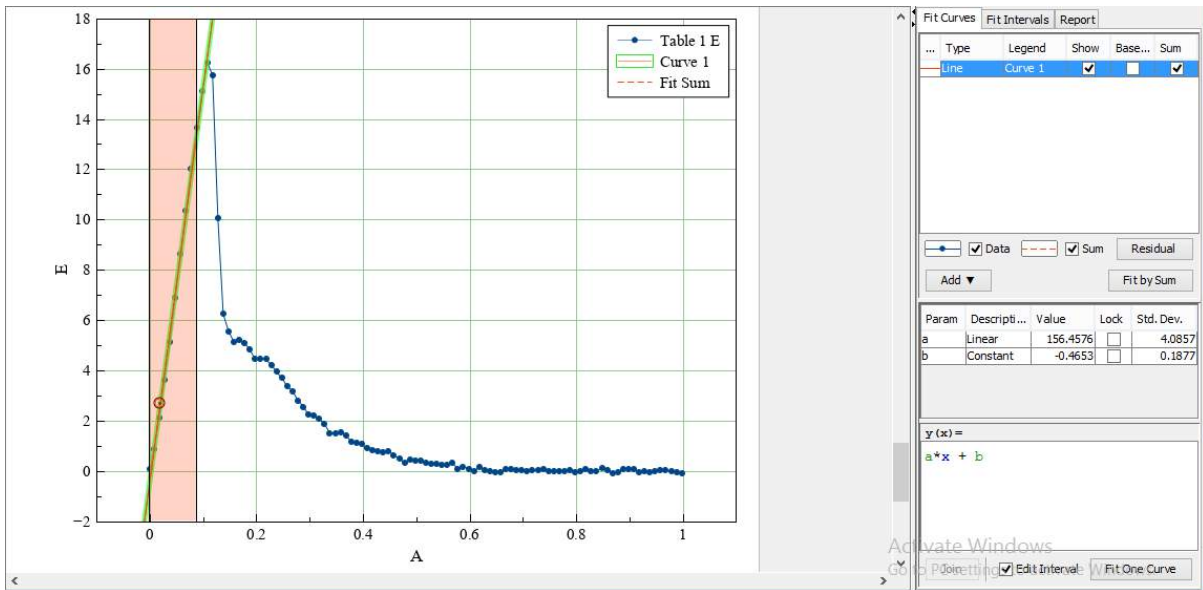
1.18 Fitting Daerah Linier TiAl Nanorods Temperatur 400 K

1.19 Fitting Daerah Linier TiAl Nanorods Temperatur 500 K

1.20 Fitting Daerah Linier TiAl Nanorods Temperatur 600 K