# 1. Weights

### decoder_decoder_layers_0_layer_norm1_bias.npy

| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_layer_norm1_weight.npy

| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_layer_norm2_bias.npy

| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_layer_norm2_weight.npy

| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_masked_msa_block_layer_norm_bias.npy

| 0.2178 | -0.0893 | 0.4224 | 0.1245 | 0.2691 | 0.0605 | -0.2023 | 0.2111 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_masked_msa_block_layer_norm_weight.npy

| 1.3161 | 1.1352 | 1.1674 | 1.1482 | 1.2967 | 1.2104 | 1.1292 | 1.3881 |
|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_masked_msa_block_multihead_attn_in_proj_bias.npy

| 232 | 0.1029 | 0.0247 | 0.3380 | -0.2454 | -0.0923 | 0.0009 | 0.2139 | -0.3835 | -0.2818 | -0.3426 | -0.5254 | -0.4172 | 0.1205 | -0.2073 | 0.0435 | -0.1556 | 0.2164 | -0.2130 | 0.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

### decoder_decoder_layers_0_masked_msa_block_multihead_attn_in_proj_weight.npy

| -0.3160 | 0.0049 | -0.3806 | 0.1861 | -0.2534 | 0.2311 | -0.2491 | -0.2691 |
|---|---|---|---|---|---|---|---|
| -0.4071 | -0.0404 | -0.1524 | 0.0461 | -0.2998 | 0.1843 | -0.0252 | 0.0124 |
| 0.2646 | -0.2489 | -0.4162 | 0.0640 | -0.4230 | 0.1358 | 0.1961 | 0.1717 |
| 0.2086 | -0.2740 | 0.2584 | 0.0077 | -0.3404 | -0.3244 | 0.3051 | 0.1881 |
| -0.0742 | 0.2915 | 0.1895 | -0.2705 | -0.4577 | 0.2650 | -0.2537 | 0.4925 |
| 0.1435 | -0.2889 | 0.3309 | 0.3620 | -0.2407 | 0.0186 | -0.0451 | 0.3332 |
| 0.4736 | -0.5719 | -0.4418 | 0.1181 | -0.0820 | 0.2553 | 0.3801 | 0.5771 |
| 0.2520 | -0.1611 | 0.0581 | 0.5585 | -0.4326 | 0.0441 | 0.3211 | -0.1085 |
| -0.0533 | 0.2854 | -0.2385 | 0.1471 | -0.2550 | -0.0918 | -0.3791 | 0.3572 |
| -0.2808 | -0.0859 | -0.6352 | 0.4966 | -0.1880 | 0.2410 | 0.2335 | 0.0553 |
| 0.1096 | 0.1578 | 0.2588 | -0.2511 | -0.2461 | -0.1589 | 0.1886 | 0.2906 |
| 0.3817 | 0.1794 | -0.0940 | -0.3892 | -0.2313 | -0.4228 | 0.3524 | -0.6433 |
| 0.5368 | 0.2776 | 0.1479 | -0.3512 | -0.1831 | 0.5192 | -0.2726 | 0.2087 |
| 0.4438 | -0.0059 | 0.7183 | -0.1571 | -0.1409 | -0.1030 | -0.2341 | 0.1564 |
| -0.3230 | 0.0208 | -0.2232 | -0.3367 | -0.4090 | -0.3097 | 0.5295 | 0.5620 |
| -0.0603 | -0.0822 | 0.1006 | 0.5534 | -0.1886 | -0.2938 | 0.5582 | -0.1156 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.2208 | 0.5503 | -0.1507 | -0.3265 | -0.3341 | -0.5739 | -0.3280 | -0.0038 |
| 0.4549 | -0.1028 | 0.0094 | -0.5618 | -0.5536 | -0.0713 | -0.1511 | 0.2207 |
| -0.1262 | 0.1961 | -0.4220 | -0.3086 | -0.0692 | 0.6319 | -0.0400 | -0.6865 |
| 0.4457 | -0.1104 | 0.1054 | 0.1001 | 0.2964 | 0.6077 | -0.6718 | 0.2455 |
| -0.1040 | -0.2808 | -0.1968 | 0.4705 | -0.2382 | -0.2736 | 0.0440 | -0.7977 |
| 0.1276 | 0.4096 | -0.3047 | -0.0762 | -0.5487 | 0.2678 | -0.3762 | 0.2710 |
| 0.2181 | -0.1957 | -0.3829 | -0.0823 | 0.0767 | -0.2751 | 0.4704 | -0.7498 |
| -0.5864 | 0.2568 | -0.0839 | -0.3205 | -0.7839 | -0.2388 | 0.4822 | 0.3090 |

### *decoder_decoder_layers_0_masked_msa_block_multihead_attn_out_proj_bias.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.1055 | -0.1219 | 0.2222 | -0.2830 | -0.1952 | 0.2102 | -0.3075 | 0.1641 |

### *decoder_decoder_layers_0_masked_msa_block_multihead_attn_out_proj_weight.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| -0.0509 | 0.1696 | -0.1433 | -0.0783 | 0.2411 | -0.5102 | 0.2836 | -0.3278 |
| -0.3250 | -0.0654 | 0.2513 | 0.0798 | 0.3168 | 0.2561 | 0.0031 | 0.0540 |
| 0.0260 | -0.1647 | -0.0110 | 0.3470 | 0.3307 | -0.0938 | -0.1379 | -0.5338 |
| 0.1442 | -0.0972 | 0.0364 | 0.0150 | 0.5921 | -0.4644 | 0.1801 | 0.0449 |
| -0.5039 | -0.6706 | 0.3032 | -0.1281 | 0.0422 | -0.6592 | 0.2677 | -0.2280 |
| 0.0127 | -0.1216 | -0.2976 | 0.1787 | -0.0579 | 0.1070 | -0.3974 | -0.0594 |
| 0.3394 | 0.1140 | -0.0108 | -0.5393 | 0.4839 | 0.2007 | 0.6120 | 0.1145 |
| 0.2011 | 0.3778 | 0.2188 | 0.3272 | -0.3218 | 0.3416 | -0.0681 | -0.2497 |

### *decoder_decoder_layers_0_mlp_block_layer_norm_bias.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0182 | 0.1603 | 0.0721 | 0.0070 | 0.0328 | -0.1341 | -0.0341 | 0.0457 |

### *decoder_decoder_layers_0_mlp_block_layer_norm_weight.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1.3880 | 1.4834 | 1.3776 | 1.4991 | 1.3372 | 1.4061 | 1.3869 | 1.4219 |

### *decoder_decoder_layers_0_mlp_block_mlp_0_bias.npy*

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 251 | -0.0095 | -0.0906 | -0.2094 | 0.0504 | -0.1421 | 0.0690 | 0.1952 | 0.1022 | 0.1957 | 0.0795 | -0.3435 | -0.1183 | -0.2442 | 0.1695 | -0.1414 | 0.3528 | -0.1732 | -0.3973 | 0.2 |

### *decoder_decoder_layers_0_mlp_block_mlp_0_weight.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0068 | -0.1933 | 0.4697 | -0.5422 | 0.0328 | -0.2098 | 0.7123 | 0.2553 |
| -0.5918 | 0.6880 | -0.0657 | -0.2286 | 0.4495 | -0.0609 | 0.0752 | 0.1947 |
| -0.6514 | 0.2963 | 0.5943 | 0.1443 | -0.5196 | -0.0557 | 0.3823 | -0.1784 |
| -0.4408 | 0.3852 | 0.3284 | 0.4033 | -0.3459 | 0.0657 | -0.0002 | 0.1417 |
| -0.1916 | -0.3960 | -0.4012 | 0.6026 | 0.4497 | -0.3538 | -0.2712 | 0.6702 |
| 0.0914 | 0.5356 | 0.2135 | -0.3080 | -0.5809 | 0.1101 | 0.2698 | -0.3823 |
| 0.0083 | 0.4862 | -0.2883 | 0.0521 | -0.6963 | -0.4406 | 0.0825 | 0.6168 |
| 0.4288 | -0.1023 | -0.7229 | 0.3321 | -0.1463 | 0.3446 | 0.1894 | 0.2303 |

| -0.5016 | -0.0195 | 0.3031 | 0.5095 | -0.1718 | 0.2452 | 0.1805 | -0.0248 |
|---|---|---|---|---|---|---|---|
| -0.1312 | -0.5654 | -0.5284 | -0.0647 | 0.0255 | 0.3282 | 0.5479 | 0.3555 |
| -0.1643 | 0.2608 | -0.2898 | -0.2611 | 0.6124 | -0.3747 | -0.1567 | 0.0217 |
| 0.3729 | -0.3513 | 0.2375 | 0.0748 | 0.1497 | 0.1046 | 0.0269 | -0.0707 |
| 0.1408 | 0.2428 | -0.0119 | -0.3290 | -0.2275 | 0.5306 | 0.0385 | 0.2186 |
| 0.2112 | -0.2817 | -0.0391 | 0.4777 | -0.2406 | 0.3343 | -0.0656 | -0.4780 |
| 0.2414 | -0.3571 | -0.3843 | 0.7722 | 0.0657 | 0.5744 | 0.0969 | -0.4554 |
| -0.5279 | 0.5207 | 0.3179 | 0.3513 | -0.1761 | -0.0334 | 0.2233 | 0.1358 |
| -0.0592 | -0.1927 | -0.2546 | 0.1423 | 0.4429 | -0.5657 | 0.5595 | 0.6522 |
| -0.1700 | -0.6990 | -0.3896 | 0.8676 | 0.0948 | 0.3018 | -0.0720 | -0.1749 |
| 0.1696 | 0.7029 | -0.4752 | 0.8154 | 0.1666 | -0.1157 | -0.6057 | 0.0872 |
| -0.0275 | -0.5586 | -0.3103 | 0.3066 | 0.0900 | 0.4259 | 0.5882 | 0.4059 |
| 0.3755 | 0.7028 | -0.5916 | 0.2224 | -0.3079 | -0.2496 | 0.0568 | 0.0193 |
| 0.1244 | -0.1470 | 0.0710 | 0.1977 | -0.0855 | -0.2207 | 0.4217 | -0.3730 |
| 0.1882 | 0.0517 | 0.1643 | 0.0017 | 0.1224 | -0.5717 | 0.1556 | 0.4820 |
| 0.1540 | -0.3740 | 0.0959 | -0.0853 | -0.1630 | -0.2270 | 0.7385 | -0.3417 |
| -0.6651 | -0.2760 | 0.0594 | -0.4204 | -0.2223 | -0.0793 | 0.1026 | 0.1181 |
| -0.0583 | 0.7769 | 0.0171 | 0.2130 | 0.0057 | -0.1169 | -0.3220 | -0.2523 |
| -0.3237 | -0.1699 | 0.1006 | 0.1421 | 0.6060 | -0.0503 | 0.0040 | 0.1563 |
| 0.5558 | -0.1552 | -0.3181 | 0.5348 | -0.2794 | 0.2434 | -0.1211 | 0.1233 |
| 0.2512 | 0.5242 | -0.0019 | -0.3428 | 0.5377 | 0.0864 | -0.1288 | -0.4044 |
| -0.8173 | -0.1344 | 0.1289 | 0.5460 | -0.0819 | 0.2249 | -0.0211 | -0.2014 |
| -0.4433 | 0.4338 | 0.3741 | -0.3233 | 0.3553 | 0.2830 | 0.3033 | -0.6200 |
| -0.0546 | 0.4142 | -0.4284 | 0.3465 | 0.4033 | -0.7985 | -0.1987 | 0.0959 |

### *decoder_decoder_layers_0_mlp_block_mlp_3_bias.npy*

| 0.1620 | -0.0767 | 0.1103 | -0.2693 | -0.1717 | 0.1679 | -0.2515 | 0.0225 |
|---|---|---|---|---|---|---|---|

### *decoder_decoder_layers_0_mlp_block_mlp_3_weight.npy*

| -0.1684 | -0.1526 | -0.2841 | 0.1110 | 0.2299 | -0.0860 | 0.3645 | 0.4998 | 0.5155 | -0.3707 | 0.2831 | -0.2786 | -0.2600 | 0.2493 | 0.2643 | -0.0404 | 0.1266 | -0.4474 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.3013 | -0.1418 | -0.1995 | 0.0482 | -0.1491 | 0.0187 | 0.1312 | -0.0248 | -0.0443 | 0.2430 | -0.0738 | 0.1738 | -0.2227 | 0.3734 | -0.1065 | -0.3305 | -0.1360 | 0.2231 |
| 0.0217 | 0.2244 | -0.0940 | 0.5592 | 0.1600 | -0.1172 | 0.2648 | 0.2643 | 0.2396 | -0.1561 | 0.5068 | -0.4286 | 0.0083 | 0.3298 | -0.3720 | 0.0519 | -0.4111 | -0.3570 |
| -0.1220 | -0.0621 | -0.4056 | -0.0532 | 0.1741 | -0.0958 | 0.0212 | -0.4054 | 0.1241 | -0.1207 | -0.3165 | -0.5522 | -0.3570 | -0.0779 | -0.3130 | 0.0466 | -0.2299 | -0.0069 |
| -0.3848 | 0.0187 | -0.5110 | -0.1151 | -0.1012 | -0.0923 | -0.2862 | -0.3869 | 0.1869 | 0.5346 | -0.6097 | -0.0667 | -0.6270 | 0.1765 | 0.1543 | 0.2652 | 0.3463 | 0.0521 |
| 0.4070 | -0.3923 | 0.6380 | -0.1521 | -0.0101 | 0.0978 | 0.2605 | 0.4413 | -0.1452 | 0.1926 | 0.3377 | 0.6011 | 0.4593 | 0.5746 | -0.2741 | -0.2473 | -0.0632 | -0.3983 |
| 0.1190 | -0.4263 | 0.0538 | -0.2403 | 0.0572 | -0.1815 | 0.1692 | 0.1380 | -0.0895 | -0.4603 | 0.1228 | 0.0341 | 0.0459 | 0.4492 | 0.3414 | -0.1459 | 0.0981 | -0.1219 |
| 0.1557 | 0.1274 | -0.1300 | 0.3943 | -0.0703 | -0.1413 | -0.2535 | -0.3510 | 0.5478 | 0.1113 | -0.1684 | -0.0478 | 0.0850 | 0.2482 | -0.1274 | 0.1390 | -0.0644 | 0.1463 |

### *output_layer_bias.npy*

| 0.2699 | 0.5537 | 0.3782 | -0.1436 | 0.1380 | 0.2371 | -0.3324 | 0.3016 | -0.0076 | -0.3039 | -0.0725 | 0.5245 | -0.1550 | 0.1139 | -0.0126 | -0.3207 | 0.3808 | 0.1491 | -0.4258 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## output_layer_weight.npy

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| -0.5661 | 0.7097 | -0.5682 | 0.3360 | -0.0148 | -0.4150 | 0.6658 | -0.3102 |
| 0.5216 | -0.0557 | -0.1402 | 0.4943 | -0.0184 | -0.2520 | -0.0191 | -0.5183 |
| -0.2596 | 0.6546 | -0.3147 | 0.6417 | -0.2351 | -0.5010 | 0.3088 | -0.2349 |
| 0.0149 | 0.1662 | 0.6940 | 0.8196 | 0.2944 | -0.0837 | 0.3707 | -0.4060 |
| -0.0096 | 0.4563 | 0.0113 | -0.0014 | -0.1333 | 0.3376 | -0.0163 | 0.1232 |
| 0.1521 | 0.0620 | 0.1000 | 0.3960 | 0.0494 | -0.4457 | 0.2111 | 0.6945 |
| 0.1201 | 0.3712 | 0.0000 | -0.1458 | -0.0948 | 0.3316 | -0.0416 | 0.2861 |
| -0.2685 | -0.2300 | 0.3096 | -0.0958 | -0.0553 | 0.0216 | 0.0172 | 0.0031 |
| 0.0199 | 0.4795 | 0.2178 | -0.3602 | -0.0135 | 0.4453 | 0.1307 | 0.1378 |
| -0.2342 | 0.1380 | 0.2679 | -0.0916 | 0.3232 | -0.2400 | -0.3172 | -0.0269 |
| 0.1697 | -0.1630 | 0.0588 | -0.2343 | 0.1241 | -0.3383 | -0.0229 | 0.2157 |
| 0.1817 | 0.2108 | -0.0349 | -0.1403 | -0.0031 | 0.2429 | 0.0019 | 0.2190 |
| -0.0324 | -0.2344 | -0.1322 | -0.1709 | -0.0640 | -0.0073 | -0.1972 | -0.0380 |
| 0.0711 | 0.4215 | 0.0774 | -0.0598 | -0.1873 | 0.3707 | -0.0359 | 0.0538 |
| -0.3615 | 0.1469 | 0.1309 | -0.1534 | 0.3529 | -0.0548 | -0.0377 | 0.2527 |
| -0.0578 | 0.3877 | -0.0294 | -0.0638 | -0.0330 | 0.2407 | 0.0547 | 0.1112 |
| 0.0224 | 0.4484 | 0.0695 | -0.2178 | -0.1038 | 0.3955 | 0.0047 | 0.1320 |
| -0.2595 | -0.3023 | -0.4131 | -0.0293 | -0.0526 | 0.3042 | 0.0399 | -0.2155 |
| -0.1591 | -0.0842 | 0.3273 | 0.0500 | -0.1214 | -0.0786 | -0.2125 | -0.0082 |
| -0.0340 | 0.3957 | -0.1490 | -0.1386 | 0.0448 | 0.2348 | -0.0421 | 0.2605 |
| -0.2142 | 0.1741 | 0.3581 | 0.3356 | 0.1977 | 0.0671 | -0.1301 | 0.1668 |
| 0.2318 | -0.0551 | 0.0479 | 0.1461 | 0.2579 | -0.0627 | -0.3970 | -0.1249 |
| 0.1736 | 0.4627 | 0.0411 | -0.0532 | -0.3152 | 0.1944 | -0.1855 | 0.0239 |
| -0.0310 | -0.0297 | 0.1158 | -0.1154 | 0.0819 | -0.1070 | -0.1608 | -0.0860 |
| 0.0680 | 0.4830 | 0.0723 | -0.0751 | -0.2377 | 0.3006 | -0.0834 | 0.0688 |
| 0.2089 | -0.1109 | 0.2402 | 0.1326 | -0.0228 | -0.2396 | -0.2483 | -0.2585 |
| -0.2228 | -0.3434 | 0.1517 | -0.1069 | 0.1215 | -0.2610 | -0.0384 | 0.3610 |
| 0.0579 | -0.1438 | 0.2109 | 0.0576 | -0.1091 | -0.0185 | -0.1963 | -0.1166 |
| -0.1417 | 0.4002 | -0.2182 | 0.0200 | 0.0329 | 0.2584 | -0.2379 | 0.2031 |
| 0.0366 | 0.4492 | -0.0271 | -0.0403 | -0.1267 | 0.3341 | -0.0010 | 0.1715 |
| -0.1143 | -0.1573 | 0.3177 | 0.0089 | -0.1225 | -0.2585 | -0.1961 | 0.0262 |
| 0.0488 | 0.3268 | 0.0094 | -0.1024 | -0.1742 | 0.1801 | -0.0300 | 0.2369 |
| -0.0616 | 0.0247 | 0.0100 | 0.0231 | -0.1369 | -0.2273 | -0.3045 | 0.1439 |
| -0.2170 | 0.2053 | 0.2477 | 0.1083 | 0.2080 | 0.0898 | -0.1677 | 0.1110 |
| 0.0478 | 0.5007 | 0.0736 | -0.0863 | -0.2424 | 0.2338 | -0.0919 | 0.0012 |
| 0.0460 | 0.2689 | -0.2218 | -0.0877 | -0.1186 | 0.2388 | 0.0469 | 0.3370 |
| -0.0606 | -0.0866 | 0.2227 | 0.1327 | 0.4474 | 0.2187 | -0.2108 | -0.4646 |
| -0.0128 | 0.2457 | -0.0546 | 0.0310 | -0.2452 | 0.1509 | -0.1658 | 0.2079 |
| 0.1773 | 0.0494 | 0.0753 | 0.1847 | 0.0644 | -0.1770 | -0.2071 | -0.0681 |
| -0.3351 | 0.1320 | 0.2898 | 0.2239 | 0.1138 | 0.1321 | -0.2470 | 0.0133 |
| 0.1994 | 0.4499 | 0.0092 | -0.1061 | -0.2208 | 0.2307 | -0.1037 | 0.0360 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0186 | 0.4293 | 0.0105 | -0.0780 | -0.1929 | 0.2493 | -0.0347 | 0.0721 |
| 0.0218 | 0.4392 | 0.0668 | -0.1480 | -0.1186 | 0.2725 | -0.0031 | 0.0697 |
| -0.6320 | 0.2232 | -0.0196 | -0.0544 | 0.6054 | 0.1170 | 0.1148 | 0.5065 |
| -0.0553 | -0.1811 | -0.0537 | -0.0237 | 0.0415 | -0.1499 | -0.3260 | -0.2307 |
| 0.0552 | 0.0195 | 0.2769 | -0.0059 | 0.0492 | -0.1714 | -0.0797 | 0.0501 |
| -0.1638 | 0.0115 | -0.0930 | -0.1352 | -0.5354 | 0.5232 | 0.1810 | -0.4937 |
| 0.0133 | 0.4508 | -0.0089 | -0.0266 | -0.1733 | 0.2346 | -0.0439 | 0.0954 |
| -0.0714 | -0.2369 | -0.2595 | -0.1556 | -0.6398 | 0.1087 | 0.2162 | 0.4860 |
| 0.0838 | -0.0111 | 0.0939 | -0.1037 | -0.3866 | 0.4137 | 0.1141 | -0.1167 |
| 0.1602 | -0.2203 | 0.1284 | -0.0739 | -0.4270 | 0.4095 | 0.1943 | 0.0279 |
| 0.1058 | -0.0143 | 0.1630 | -0.2137 | -0.3918 | 0.3745 | 0.2483 | 0.0412 |
| -0.1447 | 0.1919 | -0.0866 | -0.4208 | 0.2652 | -0.4384 | -0.0095 | 0.1668 |
| -0.1777 | 0.0404 | 0.0950 | 0.1592 | 0.0559 | -0.1679 | -0.2186 | -0.0903 |
| 0.4420 | -0.0361 | 0.3363 | -0.3982 | -0.3645 | 0.5132 | 0.0710 | 0.2373 |
| 0.0826 | -0.1332 | 0.2886 | -0.1773 | 0.2179 | -0.1842 | -0.0430 | 0.3933 |
| -0.2268 | -0.0376 | -0.0498 | 0.1071 | 0.0685 | 0.4039 | -0.3762 | 0.2790 |
| 0.1823 | -0.3134 | 0.2647 | 0.1769 | -0.0543 | 0.0237 | -0.3347 | 0.1107 |
| 0.3506 | -0.4310 | -0.1139 | -0.2235 | 0.0398 | 0.3677 | -0.1259 | -0.3216 |
| -0.0329 | -0.2220 | 0.4367 | 0.1241 | -0.0995 | 0.0305 | -0.1520 | 0.1799 |
| 0.0441 | -0.2921 | 0.3319 | -0.0550 | -0.0225 | -0.1860 | -0.2127 | 0.2064 |
| 0.3014 | -0.2521 | -0.1895 | -0.1233 | -0.0877 | -0.0462 | -0.3945 | -0.0562 |
| -0.4096 | 0.2065 | -0.0811 | -0.0404 | -0.0096 | 0.3555 | -0.3266 | 0.0035 |
| 0.3327 | -0.4784 | -0.0823 | 0.1056 | 0.2615 | 0.1486 | -0.2260 | 0.5623 |
| 0.1803 | -0.3031 | -0.0830 | -0.0946 | -0.2130 | -0.1721 | -0.5333 | -0.4551 |
| -0.4440 | -0.3583 | 0.1231 | -0.1873 | -0.1591 | 0.0022 | -0.1165 | -0.1921 |
| -0.3208 | -0.1564 | -0.2478 | 0.1595 | -0.0072 | 0.4075 | -0.3684 | -0.0250 |
| 0.0643 | -0.2618 | 0.2563 | 0.1450 | -0.0135 | -0.1374 | -0.1492 | 0.2114 |
| -0.3870 | -0.2588 | -0.1710 | -0.3223 | -0.0153 | 0.0222 | -0.2528 | -0.1944 |
| -0.2777 | 0.0842 | -0.1062 | -0.2123 | 0.1701 | 0.2388 | -0.2284 | -0.2091 |
| 0.0571 | -0.4012 | -0.1174 | -0.4605 | 0.0427 | -0.0728 | -0.1472 | -0.1664 |
| -0.2550 | -0.0155 | -0.1445 | -0.3686 | 0.0981 | 0.2151 | -0.1505 | -0.0591 |
| -0.2496 | -0.0933 | -0.1481 | -0.1184 | -0.1591 | -0.0753 | -0.3395 | -0.1417 |
| -0.3312 | -0.4714 | 0.3844 | -0.0869 | -0.0879 | -0.0239 | 0.0421 | 0.0065 |
| -0.2586 | -0.1257 | -0.1504 | -0.3319 | -0.0756 | -0.1586 | -0.1961 | -0.1441 |
| -0.2634 | 0.7066 | -0.0501 | 0.7342 | 0.4322 | 0.3077 | 0.2921 | 0.0209 |
| 0.0702 | 0.1647 | 0.1412 | 0.3043 | -0.0082 | 0.0411 | 0.1476 | -0.0150 |
| -0.0460 | -0.4014 | -0.3039 | -0.2164 | 0.0210 | -0.0319 | -0.1752 | -0.1078 |
| -0.2137 | -0.6529 | -0.2438 | 0.0840 | 0.0698 | -0.1547 | -0.1465 | 0.2714 |
| 0.4383 | 0.0235 | -0.0381 | 0.0417 | -0.1846 | 0.1177 | 0.3481 | -0.8156 |
| 0.5988 | 0.0835 | -0.0465 | 0.0620 | -0.0340 | -0.1325 | 0.3698 | -0.2296 |
| -0.1050 | 0.3327 | -0.4240 | 0.3418 | -0.0199 | -0.1114 | 0.3614 | 0.1660 |
| 0.4600 | 0.2717 | 0.2546 | 0.2141 | 0.0642 | -0.0672 | 0.4518 | 0.2088 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| -0.0507 | 0.3307 | -0.1648 | 0.2713 | 0.0452 | 0.0122 | 0.1654 | -0.1251 |
| 0.0134 | 0.1923 | 0.2175 | 0.1175 | -0.0869 | -0.1219 | 0.4233 | -0.0669 |
| -0.6173 | 0.2878 | -0.5858 | 0.2881 | -0.1103 | -0.3868 | 0.7042 | -0.2129 |
| -0.3989 | 0.7344 | -0.6636 | 0.3408 | -0.0780 | -0.4505 | 0.3112 | -0.4189 |
| 0.0978 | -0.3667 | -0.1111 | 0.0119 | 0.1737 | -0.4432 | 0.4413 | -0.0706 |
| 0.2584 | -0.0659 | -0.2728 | -0.0212 | 0.0039 | -0.5543 | 0.2198 | -0.4007 |
| 0.2908 | -0.0477 | -0.0241 | 0.3235 | 0.2384 | -0.0493 | 0.4878 | -0.2318 |
| 0.0418 | -0.4553 | -0.4332 | -0.0694 | 0.2132 | -0.2099 | 0.5562 | -0.3972 |
| 0.0172 | -0.2603 | -0.2074 | 0.0658 | 0.3297 | -0.3016 | 0.5352 | -0.1956 |
| 0.1500 | -0.0796 | 0.1095 | 0.6544 | 0.1684 | -0.3241 | 0.1290 | 0.1802 |
| 0.2313 | -0.1810 | -0.0424 | 0.2247 | 0.0067 | -0.4275 | 0.4278 | -0.2580 |
| -0.1302 | 0.8171 | 0.4510 | 0.3730 | 0.5898 | 0.3843 | 0.5046 | 0.2123 |
| 0.0522 | -0.1836 | -0.2296 | 0.2071 | 0.2305 | -0.5070 | 0.2814 | -0.4487 |
| 0.0594 | -0.2333 | -0.1288 | 0.0406 | 0.1694 | -0.4705 | 0.4872 | -0.2945 |
| -0.0480 | -0.0728 | -0.3785 | 0.0190 | -0.1434 | 0.1434 | -0.0860 | -0.1106 |
| 0.0600 | -0.2760 | -0.2908 | 0.1761 | 0.2881 | -0.3831 | 0.4044 | -0.1272 |
| 0.3173 | -0.2205 | -0.5501 | 0.3419 | 0.0897 | -0.3179 | 0.2402 | -0.1690 |
| -0.0040 | -0.0350 | -0.1175 | -0.1942 | 0.1596 | -0.5866 | 0.4201 | -0.5358 |
| 0.1283 | -0.1060 | -0.1858 | 0.0466 | 0.0854 | -0.4870 | 0.3745 | -0.3173 |
| -0.0249 | -0.2156 | -0.3139 | 0.0339 | 0.2444 | -0.5380 | 0.4888 | -0.2484 |
| 0.2368 | -0.2014 | -0.3068 | 0.1549 | 0.0809 | -0.3225 | 0.2971 | -0.2745 |
| -0.0152 | 0.0919 | -0.2499 | 0.4791 | 0.3186 | -0.5847 | 0.2613 | -0.3645 |
| 0.1154 | 0.2298 | -0.1351 | 0.1948 | 0.3184 | -0.5227 | 0.2382 | -0.4982 |
| 0.1109 | -0.1206 | -0.1647 | 0.0213 | 0.1144 | -0.3801 | 0.3490 | -0.5574 |
| 0.1813 | 0.0088 | 0.0157 | 0.2957 | 0.1506 | -0.0725 | 0.5648 | 0.1516 |
| 0.1936 | 0.3323 | 0.0782 | 0.1830 | 0.3541 | 0.0145 | 0.3830 | -0.0465 |
| 0.0771 | 0.0504 | 0.2209 | 0.4763 | 0.2424 | -0.0075 | 0.4678 | 0.0475 |
| 0.0412 | -0.0630 | -0.2564 | 0.1890 | 0.4188 | -0.1573 | 0.4461 | -0.5762 |
| 0.0467 | -0.1183 | -0.1959 | 0.1819 | 0.1910 | -0.4471 | 0.4096 | -0.2601 |
| 0.0089 | -0.0909 | -0.3176 | -0.0610 | 0.0475 | -0.4971 | 0.4931 | -0.4986 |
| 0.2472 | 0.3164 | -0.1715 | 0.5218 | 0.3932 | 0.0349 | 0.2193 | 0.0044 |
| 0.2880 | 0.2770 | -0.1305 | 0.2614 | 0.3210 | 0.1051 | 0.4261 | 0.1480 |
| 0.2855 | 0.3178 | 0.1208 | 0.2855 | 0.2286 | -0.0038 | 0.5050 | 0.1091 |
| -0.2865 | -0.1756 | -0.3511 | 0.0293 | 0.0251 | -0.1886 | -0.0757 | 0.0899 |
| -0.1411 | -0.0330 | -0.1414 | 0.0828 | -0.0633 | -0.3554 | -0.0615 | -0.3352 |
| 0.1473 | 0.0580 | -0.2909 | 0.4154 | 0.2353 | -0.1994 | 0.3979 | -0.4093 |
| -0.1383 | 0.0094 | -0.0629 | -0.0536 | 0.0204 | -0.0465 | 0.1971 | -0.2072 |
| 0.1022 | 0.0452 | -0.5158 | 0.2975 | 0.3574 | -0.1736 | 0.3487 | -0.1903 |
| -0.0122 | 0.0352 | -0.0846 | 0.0220 | 0.0388 | -0.4823 | 0.5394 | -0.2856 |
| -0.1390 | 0.1431 | -0.3859 | 0.4439 | 0.4677 | -0.3459 | 0.3844 | -0.1387 |
| -0.0742 | 0.0451 | -0.1826 | 0.3997 | 0.3713 | -0.2745 | 0.6866 | -0.1762 |
| 0.1129 | 0.1932 | -0.1657 | 0.1875 | 0.3039 | -0.1788 | 0.5962 | -0.2936 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0569 | -0.0236 | -0.3383 | 0.5780 | 0.1778 | -0.3292 | 0.3404 | -0.1366 |
| 0.0417 | 0.3589 | -0.5935 | 0.6221 | 0.3722 | -0.1006 | 0.5760 | -0.1112 |
| -0.2424 | 0.4592 | -0.1574 | 0.3273 | 0.5087 | -0.2377 | 0.6387 | -0.3604 |
| -0.1552 | 0.3879 | -0.1384 | 0.6504 | 0.0949 | -0.4947 | 0.5652 | -0.3482 |
| -0.3468 | 0.2364 | -0.1934 | 0.3024 | 0.1348 | 0.0046 | 0.2877 | -0.0852 |
| -0.1095 | 0.3002 | -0.5237 | 0.6893 | 0.3155 | -0.4496 | 0.2619 | -0.1636 |
| -0.3024 | 0.3095 | -0.4488 | 0.6546 | 0.1073 | -0.5332 | 0.2520 | -0.5512 |
| -0.4396 | 0.4682 | -0.2119 | 0.3348 | 0.1994 | -0.5885 | 0.3029 | -0.5384 |
| -0.4035 | 0.1089 | -0.4583 | 0.4003 | 0.1989 | -0.5769 | 0.4337 | -0.1037 |
| -0.2216 | 0.4442 | -0.2978 | 0.2338 | 0.0750 | -0.4122 | 0.4482 | -0.4332 |
| -0.1489 | 0.2937 | -0.3186 | 0.1826 | 0.1242 | -0.2761 | 0.6452 | -0.2840 |
| -0.2149 | 0.0809 | -0.3662 | 0.4812 | 0.1230 | -0.3920 | 0.6910 | -0.0370 |
| -0.3217 | 0.1782 | -0.3323 | 0.7456 | 0.2005 | -0.4295 | 0.3684 | -0.2802 |
| -0.4387 | 0.4143 | -0.1741 | 0.2145 | 0.0573 | -0.2789 | 0.2361 | -0.1474 |
| -0.5063 | 0.2202 | -0.1823 | 0.1084 | 0.2819 | -0.3642 | 0.1621 | -0.0389 |
| -0.6229 | 0.4042 | -0.1719 | 0.2171 | 0.0839 | -0.4215 | 0.2770 | -0.1942 |
| -0.1950 | 0.4830 | -0.5512 | 0.2185 | 0.1701 | -0.1578 | 0.6256 | -0.2578 |
| -0.3048 | 0.4381 | -0.6997 | 0.4551 | 0.1138 | -0.3387 | 0.2686 | -0.2875 |
| -0.2293 | 0.3510 | -0.2154 | 0.5447 | 0.0280 | -0.1503 | 0.7863 | -0.1629 |
| -0.2420 | 0.5266 | -0.4952 | 0.5125 | -0.1518 | -0.4009 | 0.1156 | -0.1043 |
| -0.2138 | 0.3304 | -0.7436 | 0.6932 | 0.1785 | -0.2595 | 0.2774 | -0.0931 |
| -0.2111 | 0.4626 | -0.2925 | 0.5049 | 0.1006 | -0.5974 | 0.2340 | -0.4718 |
| -0.7253 | 0.2564 | -0.3482 | 0.2531 | 0.0107 | -0.5263 | 0.4479 | -0.2366 |
| -0.5446 | 0.3136 | -0.3529 | 0.6300 | 0.0645 | -0.2282 | 0.3393 | -0.0829 |
| -0.5180 | 0.7218 | -0.2654 | 0.6635 | 0.0378 | -0.5343 | 0.3084 | -0.1483 |

### positional_embedding.npy

(3D tensor, showing slice [0])

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0727 | -0.0776 | -0.1654 | 0.2682 | -0.3735 | 0.3141 | -0.0757 | 0.3328 |
| -0.5039 | -0.2876 | -0.1241 | -0.0087 | -0.2785 | -0.3701 | 0.2124 | 0.2534 |
| 0.1490 | -0.1943 | 0.3595 | -0.0187 | 0.2886 | 0.0382 | -0.3075 | 0.1486 |
| 0.0380 | -0.0169 | 0.2379 | -0.3461 | 0.3770 | -0.1000 | -0.3217 | -0.1362 |
| -0.0865 | -0.0533 | 0.2476 | -0.0379 | 0.3751 | -0.1444 | -0.3279 | -0.2614 |
| -0.1154 | -0.0721 | 0.2359 | -0.0184 | 0.4544 | -0.0293 | -0.4365 | -0.2237 |
| -0.0551 | -0.0406 | 0.2800 | -0.0118 | 0.4283 | -0.0136 | -0.3835 | -0.1587 |
| -0.0678 | -0.0698 | 0.2660 | -0.0792 | 0.3933 | 0.1218 | -0.3254 | -0.1194 |
| -0.0591 | -0.0210 | 0.1838 | -0.0529 | 0.3252 | 0.1335 | -0.3493 | -0.0459 |
| -0.0755 | -0.0302 | 0.1868 | -0.0425 | 0.3406 | 0.1151 | -0.3341 | -0.0541 |
| -0.0272 | -0.0426 | 0.2478 | 0.0013 | 0.3146 | 0.0998 | -0.3301 | -0.0229 |
| -0.0141 | -0.0429 | 0.2321 | 0.0405 | 0.3146 | 0.0737 | -0.3398 | -0.0535 |
| 0.0282 | -0.0242 | 0.2544 | 0.1092 | 0.2755 | 0.1053 | -0.3583 | -0.0743 |
| 0.0017 | -0.0364 | 0.2312 | 0.1125 | 0.2704 | 0.1203 | -0.3366 | -0.1348 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.0768 | 0.0147 | 0.2594 | 0.1529 | 0.3506 | 0.1341 | -0.2784 | -0.0850 |
| 0.1980 | -0.1896 | 0.0313 | -0.3388 | -0.2734 | 0.3112 | -0.4791 | 0.4985 |

### *token_embedding_weight.npy*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| -0.0048 | -0.6024 | 0.3729 | -0.2438 | 0.5691 | -1.0257 | -1.9482 | -1.5385 |
| 0.2427 | -0.5485 | 1.2601 | 0.2835 | 0.7702 | -0.5782 | 0.5358 | -0.3758 |
| -0.3047 | -2.5318 | -0.6824 | 0.2684 | 0.1114 | 0.4524 | 0.4995 | 0.3078 |
| 2.3509 | 0.3475 | -1.1475 | -0.1922 | -0.1184 | -0.8362 | 0.0182 | 1.7406 |
| 2.0478 | -1.3462 | -0.3415 | 0.7552 | -0.0590 | -1.5488 | -0.9295 | 1.3190 |
| 1.0456 | 0.8119 | -0.0636 | -0.8082 | -1.6767 | 0.2378 | -1.0060 | -1.6405 |
| 0.4654 | 0.2892 | -1.0705 | -0.3631 | -0.2242 | 1.5642 | -0.5840 | -0.5830 |
| -0.4987 | 0.2341 | 0.5632 | 0.3039 | -0.5284 | 0.8111 | -0.4351 | 0.0545 |
| -0.3507 | 0.7655 | 0.8849 | -1.0155 | -0.4258 | 0.6303 | 0.8566 | -1.4199 |
| -0.1323 | 0.9516 | 0.0477 | -0.8827 | 0.3978 | 0.6561 | -1.2289 | -0.2145 |
| -0.3486 | 1.3515 | 1.3507 | -1.2463 | -0.7809 | -0.3795 | -0.9124 | -0.7127 |
| -0.1831 | 0.7263 | -2.0825 | 0.6105 | -2.2636 | -0.6140 | 0.1720 | -0.6130 |
| -0.4009 | -0.5374 | 0.5498 | -0.5311 | -0.2226 | 1.9502 | 1.1162 | -0.2441 |
| 0.0494 | 0.5744 | 0.5724 | -0.4532 | 0.8152 | -0.0788 | -0.3720 | -0.5898 |
| 0.3559 | 0.4810 | 0.6880 | -0.6235 | -1.0659 | 1.2993 | 0.5282 | 0.0498 |
| -0.1409 | -0.2167 | -0.7748 | 0.1772 | 0.1275 | 0.0820 | 0.2664 | 0.3928 |
| -0.4519 | -1.1947 | -0.1598 | -0.1483 | 2.0956 | -0.4260 | -0.7062 | -1.3044 |
| 1.3284 | 1.1723 | -0.4336 | 1.0455 | 1.8804 | -2.2947 | -0.6913 | -0.0574 |
| -1.2723 | -0.6487 | -0.2493 | -0.3004 | 2.1956 | -0.8260 | 2.1091 | 1.1888 |
| 1.1307 | -0.0000 | 0.0797 | -0.0844 | -1.4906 | 1.4518 | -0.3117 | -3.0299 |
| -0.0932 | -0.3684 | -0.4789 | -0.1805 | -0.2411 | 0.5537 | -0.4495 | 0.0218 |
| -0.5467 | -0.0300 | 0.1715 | -1.1330 | 1.2869 | 0.6709 | -0.0678 | 0.5405 |
| 1.2259 | 0.7518 | -1.4167 | -1.9650 | 1.4800 | -1.8307 | 0.3307 | 0.1203 |
| 0.4210 | 0.1309 | -0.7275 | -0.5493 | 0.5324 | 0.9409 | -0.0361 | -0.2502 |
| -1.2047 | 0.7136 | 1.9574 | 1.0259 | -0.5863 | 0.1231 | -0.0078 | -0.9304 |
| 0.9821 | 0.5607 | -0.7290 | 1.0610 | -0.7754 | -0.9574 | -1.5442 | 2.2085 |
| 0.2470 | 1.0927 | -0.2738 | 0.5626 | -0.2718 | 1.2199 | -0.9790 | 1.6951 |
| -1.3781 | -1.6676 | 1.3997 | -1.5121 | 0.1086 | -0.0780 | -0.3145 | -0.2991 |
| -0.3476 | 0.1176 | 1.7642 | -2.0322 | 0.6099 | 1.5847 | 0.6977 | -0.9310 |
| -0.1543 | -0.0246 | 1.9409 | -0.8674 | 1.0807 | -0.5761 | 0.3292 | 0.7549 |
| -0.3911 | -0.5101 | -0.2197 | 0.4575 | 0.2805 | -1.0379 | -0.9387 | 0.8574 |
| 0.4904 | 2.0291 | 0.0330 | 0.8275 | 1.0647 | 0.8882 | -0.6595 | -0.9294 |
| 0.0146 | 0.0184 | 0.0364 | -0.3237 | -1.7226 | 0.1974 | -1.4158 | -1.1561 |
| -0.4540 | -0.0465 | 0.1000 | -0.8979 | -1.3532 | 1.2687 | -0.6578 | 0.4454 |
| 0.5293 | -0.5228 | -0.3798 | -0.7728 | 0.6498 | -0.0396 | 0.0563 | -0.3839 |
| 1.2198 | -0.0379 | 1.2397 | 0.0224 | -2.1086 | 1.8465 | -0.8508 | 0.6351 |
| -0.9867 | 0.6471 | 0.0794 | -0.9948 | -0.1667 | 0.9013 | 0.1338 | 1.0497 |
| 1.8240 | 0.2379 | 0.2607 | -0.4840 | 0.5017 | 1.2819 | 0.8648 | 1.6701 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| -0.3313 | 0.4699 | -0.0783 | 1.5206 | -0.0245 | -1.4550 | -0.3563 | -0.0587 |
| -1.3884 | -0.3187 | 0.6006 | 0.8023 | -1.5669 | 0.4776 | -0.1133 | 0.1973 |
| -1.4591 | 0.5083 | 1.7267 | 0.6261 | -0.1596 | -1.2441 | -0.7178 | -0.4132 |
| -0.9383 | 0.3976 | 1.2414 | 0.4771 | 0.3162 | -0.9085 | 0.2510 | 0.0910 |
| 0.1013 | -1.1049 | -0.0599 | -0.7633 | 0.9903 | 0.0261 | 0.0777 | -1.6542 |
| -0.3006 | 0.0407 | -1.2950 | -0.4913 | -0.6318 | 0.9038 | -0.3770 | 0.5823 |
| 0.1269 | -0.1660 | 0.4111 | 0.8946 | 0.1223 | -0.3404 | -0.1094 | 1.1450 |
| -1.1750 | -0.7095 | -0.3316 | 0.3744 | 0.2163 | 1.7913 | 0.9807 | 0.4408 |
| -0.5667 | 0.7146 | 1.5832 | 0.4129 | -1.0701 | 0.2039 | 1.0380 | 1.3186 |
| -0.1153 | -0.6075 | -0.8111 | 1.1778 | 0.7983 | 1.1216 | -1.3782 | 0.0007 |
| 1.2702 | 0.8096 | 0.0929 | -1.0284 | -1.5891 | 0.2416 | -0.1030 | 1.7793 |
| -0.0413 | 0.9795 | -1.3229 | 1.3318 | 0.3126 | 0.2782 | 1.7026 | 0.6660 |
| -0.7437 | -0.7208 | -0.7196 | -0.3670 | -0.5349 | 0.7755 | 0.0295 | -0.6841 |
| -1.9963 | -0.0638 | 0.0984 | 1.2650 | 0.6957 | -0.1161 | 0.5931 | 0.0608 |
| 0.0078 | 0.7072 | -0.6506 | -0.6816 | 0.0118 | 0.6879 | -0.1299 | 0.2173 |
| 0.2182 | -1.2809 | 1.8882 | -0.9211 | -0.8333 | 0.0542 | -0.8661 | 0.6574 |
| 1.5228 | -1.0024 | -0.0380 | -0.9296 | 0.3029 | -1.3642 | 1.0041 | -1.0862 |
| 0.6311 | -0.1293 | -0.6762 | -0.7103 | -0.3856 | 0.9695 | -0.7865 | -0.5068 |
| -0.3619 | 0.5640 | 0.7135 | -0.0655 | 0.2170 | -0.0556 | -0.9825 | 0.8379 |
| -1.7211 | -1.4628 | -0.3170 | -0.3125 | -0.3461 | 0.6265 | 1.5346 | 0.4391 |
| 0.3888 | 1.1102 | 0.2947 | -0.7667 | 1.5269 | -0.4632 | -0.5830 | 0.8991 |
| -0.2426 | -1.1558 | 0.1906 | -2.2599 | 0.1979 | -0.1004 | -0.1373 | 1.4284 |
| -1.3996 | -1.1777 | -0.9571 | -1.8501 | -0.9259 | -0.0961 | -1.5826 | -0.3223 |
| 0.7376 | -0.5548 | 1.7355 | 1.0333 | 0.1674 | 0.6693 | -1.3529 | 0.3709 |
| -0.4923 | 1.2492 | 0.2661 | -0.5450 | -0.3167 | 0.2126 | -1.4416 | 1.8137 |
| 0.2917 | -0.2248 | 2.0974 | -0.2945 | -0.3354 | 0.5011 | -0.9662 | 0.0595 |
| -2.2722 | -1.7364 | -0.0207 | 1.2191 | 0.1070 | -0.4540 | 0.1648 | -0.1478 |
| 0.1627 | 0.4966 | 0.6839 | -0.0039 | 0.5529 | 0.0811 | -0.4242 | 0.8487 |
| -0.1942 | -1.3622 | 0.2046 | 0.3674 | 0.9390 | -1.0274 | -1.1281 | 2.1430 |
| 0.0976 | -0.7500 | -1.9611 | -1.0528 | -0.4299 | -0.1252 | -2.0593 | -0.7538 |
| -0.9210 | 0.3136 | -0.4838 | -2.3421 | 0.4059 | -0.7607 | -0.3574 | 0.3232 |
| -0.2426 | 0.1987 | 0.6685 | -0.1394 | 1.3438 | 0.7295 | -1.3107 | 0.1430 |
| 0.5688 | -1.7046 | 1.2748 | -1.9166 | 1.3695 | -0.3430 | -0.7852 | 0.3599 |
| -1.0202 | -0.7900 | 1.1583 | 0.0596 | -0.0146 | 2.5629 | 0.0348 | -0.1231 |
| -0.4400 | -0.2750 | 2.7139 | -0.0143 | -0.1692 | 0.8645 | -0.6720 | -0.8202 |
| 2.0122 | 0.8499 | -1.3684 | 0.9042 | 0.8957 | -1.1624 | 0.0591 | 0.1093 |
| -1.2869 | -0.2394 | 1.4239 | -0.1684 | -0.1053 | -2.3651 | -2.4932 | -1.2135 |
| 1.7926 | -0.3137 | 1.6871 | -1.4377 | 1.0308 | -0.1690 | 0.0457 | -0.0328 |
| 1.3130 | 0.9645 | -0.2999 | 1.5533 | 0.0479 | -0.0115 | 0.9780 | -0.5744 |
| -0.8929 | -0.2929 | 2.2639 | -0.9424 | 1.2618 | -1.7451 | -0.7651 | -0.1761 |
| -1.5576 | 0.2988 | 0.3254 | -0.6277 | 0.9259 | 0.0333 | 0.1533 | -0.3861 |
| -0.5814 | 1.3335 | 1.4337 | 0.6806 | 0.9803 | 1.4639 | 0.7951 | -0.1769 |

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|---|---|---|---|---|---|---|---|
| 0.1393 | -0.7276 | 2.1223 | 0.1568 | -0.8917 | -0.2996 | 0.6806 | 1.2156 |
| 0.0942 | 1.5401 | -0.2167 | -1.8064 | -0.5151 | -2.1177 | 1.2546 | -0.0319 |
| 2.5381 | 1.0378 | -0.8023 | -0.6258 | -0.7272 | -1.0687 | 0.6083 | -0.5602 |
| 0.2848 | 1.7188 | -1.4036 | -0.8063 | -0.0430 | -0.1888 | 0.6417 | -0.0564 |
| -0.9496 | -0.4549 | -0.0719 | 0.4888 | -0.3580 | -0.0529 | 0.8111 | -0.3297 |
| 1.0920 | 1.8925 | -0.2607 | -1.2067 | -0.6484 | 1.7910 | 0.4250 | -0.4861 |
| -0.5423 | 2.0206 | -2.2801 | 1.0037 | 0.7071 | -0.2731 | 0.2912 | 0.3858 |
| 0.2149 | -2.3139 | 0.2604 | -0.8009 | 0.7857 | -0.4844 | -0.5821 | 0.1671 |
| 0.3192 | -0.2391 | 1.1974 | 0.7955 | -0.2628 | -0.8357 | -0.9025 | 1.4175 |
| 0.1112 | 0.0455 | 0.8660 | 0.5045 | 0.1978 | -0.4380 | 0.6340 | 0.2489 |
| -0.8130 | -2.1581 | -0.2828 | -0.3916 | 0.6975 | 0.2906 | 1.8048 | -0.2166 |
| -0.7699 | -1.4624 | -1.0506 | -0.9054 | 0.8728 | -0.7774 | -0.2728 | -0.8712 |
| 0.5149 | 1.5581 | 0.4932 | 1.8835 | 0.4307 | 0.5479 | 0.0037 | -0.3598 |
| -0.3305 | 0.0914 | -0.7564 | 0.1246 | -0.0084 | -0.2732 | 1.5959 | 1.1647 |
| 1.4664 | -0.7386 | -0.5506 | 1.7030 | -0.7565 | -1.1162 | 0.4865 | -1.1486 |
| 0.2291 | -0.1824 | 1.5000 | 0.4284 | -1.3351 | -0.0817 | -0.8217 | -0.7559 |
| 0.5006 | 0.5861 | -0.3123 | -0.8919 | -0.0443 | -1.1769 | -0.4275 | -0.3076 |
| -0.1582 | 0.3207 | -0.6110 | -0.1218 | 0.6317 | 0.9107 | -0.5100 | -0.2714 |
| 0.7436 | 0.8850 | -0.7367 | -0.6096 | 0.0610 | -0.8512 | 0.2521 | 0.8053 |
| -2.1006 | -1.0869 | 1.3933 | 0.7164 | -3.0873 | -0.1114 | 0.3707 | 0.0966 |
| -0.6269 | 0.6233 | 0.8359 | -0.7293 | -0.1741 | 0.2253 | 1.4808 | -0.3573 |
| -0.3482 | -0.0898 | 0.9142 | 0.9892 | -0.1337 | -0.0255 | 0.0180 | 1.0463 |
| 1.2840 | 0.1212 | -1.1131 | -0.6992 | 1.4434 | -0.6831 | 0.4406 | 1.0104 |
| -1.5482 | 0.3102 | 1.7442 | -0.0033 | -0.4103 | -1.0236 | -0.2039 | -0.4852 |
| -1.3235 | 1.1002 | 0.0375 | -2.5691 | -0.6825 | 0.3111 | 1.9422 | 0.2382 |
| 0.3998 | 0.4826 | -1.0661 | 2.9004 | 0.0406 | -0.2019 | 0.4564 | 0.0294 |
| 0.7611 | 0.9963 | 0.8528 | 0.3463 | -0.4849 | -1.4550 | -1.2297 | 0.0338 |
| -0.4608 | 0.9751 | -0.2438 | 1.4725 | -1.4956 | 0.2404 | 1.5719 | -0.1703 |
| -0.6952 | -0.6924 | -1.0163 | -1.9791 | 1.5781 | 0.4640 | 0.0800 | -0.2372 |
| 0.3176 | -0.2667 | 1.1003 | -0.4221 | 0.4777 | 0.8902 | 1.6818 | 0.5502 |
| 0.3427 | -1.3130 | 1.0610 | 0.9794 | 0.0764 | -0.7224 | -2.0784 | 0.9285 |
| 1.5899 | 1.0012 | 0.9547 | 0.3884 | 0.5948 | -0.2050 | 0.2542 | 0.6062 |
| 1.2826 | -0.3172 | -1.2202 | -0.1245 | -0.3076 | 0.3263 | -0.9731 | 0.5714 |
| 1.5735 | 1.4936 | -0.3350 | 1.1374 | -0.2905 | -1.1538 | 1.1857 | 0.1899 |
| 0.0811 | 0.6962 | 0.5448 | -0.0657 | -0.9841 | 0.1035 | 1.0919 | -0.8699 |
| -0.5039 | -0.0668 | 0.7187 | 0.3357 | -0.8953 | -1.4302 | -0.2139 | -0.2336 |
| 0.3098 | 1.0441 | -0.6822 | -0.3422 | 0.9006 | -1.2391 | 1.2692 | 0.3001 |
| -0.8140 | -0.8998 | 0.2888 | 0.0054 | -0.3554 | -0.3394 | -1.1963 | -0.6432 |
| 0.1103 | 0.2415 | -0.2471 | -0.2414 | -0.1406 | -1.7110 | -1.0814 | 0.2791 |
| -0.2493 | 0.1747 | 1.2574 | 0.4098 | -0.6736 | -0.3816 | 0.1872 | 0.9315 |
| -0.5836 | -0.9787 | 1.0094 | 0.7007 | -0.1351 | 0.0376 | 1.1788 | -0.1263 |
| -1.2940 | -0.6320 | 0.2645 | 1.1670 | -1.0180 | -1.4115 | -0.4882 | -0.1259 |

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|---|---|---|---|---|---|---|---|
| -0.0069 | -0.3074 | 0.6112 | -1.3895 | 1.7613 | 1.1606 | 0.6238 | 0.2118 |
| 0.6651 | 0.0840 | 0.3561 | -0.3463 | -1.8003 | -0.1245 | 0.0695 | 0.6347 |
| 0.7249 | 0.3670 | 1.0692 | -2.3215 | 1.1108 | -0.6769 | -1.2366 | 0.3754 |
| 0.9285 | -0.0122 | 1.2810 | -0.9731 | -0.1438 | -0.5292 | -0.9105 | 0.7354 |
| 1.2103 | -0.3646 | -0.9121 | 1.2788 | 0.5104 | 1.5621 | -0.3786 | -0.0306 |
| 1.0064 | 1.0023 | -0.4902 | 0.9603 | -0.8609 | 0.7042 | 0.9191 | -0.6280 |
| 0.0433 | -0.3536 | -0.1470 | -1.2553 | 0.6101 | 0.7848 | -0.2677 | -0.5312 |
| 0.5940 | -0.1415 | -0.5301 | -0.7277 | 0.5234 | 0.0262 | -1.0316 | -0.0738 |
| 1.9427 | -0.2311 | 0.2732 | 1.0331 | 0.6132 | 0.3907 | -0.8989 | 1.1913 |
| -0.2517 | -0.2635 | -1.1210 | -0.9179 | 0.4125 | -0.6280 | -0.6310 | -2.0591 |
| -0.5376 | 0.8862 | 0.4897 | 0.2584 | 1.0745 | 0.7430 | -0.6045 | -0.0537 |
| 0.7727 | 0.8032 | -0.0331 | -0.5106 | -0.3088 | 0.8560 | -0.4036 | 0.8026 |
| 1.6512 | 1.1485 | 1.3609 | -1.3039 | 0.5554 | 2.3368 | -1.0773 | 0.2944 |
| -1.2999 | -0.6701 | -0.2773 | 0.4292 | -0.8223 | -1.2171 | -0.1490 | -0.4598 |
| 0.3078 | -0.1450 | -0.6515 | 1.6350 | -1.8876 | 0.4648 | 1.4849 | -0.3874 |
| -1.1094 | -1.7398 | 0.1198 | -1.6362 | 0.0860 | 0.8664 | -0.0844 | 2.5130 |
| -0.4452 | -1.1163 | -1.0181 | 0.6431 | -0.6461 | 0.9866 | 0.2094 | -1.4938 |
| -0.1600 | -0.5670 | 0.6575 | -1.4714 | -1.0279 | -1.0865 | 0.5792 | 1.1408 |
| 0.6259 | -1.5716 | 0.5716 | 0.5079 | -0.1640 | 1.5209 | -0.6708 | 0.7054 |
| -0.0743 | 1.3021 | 0.4133 | 1.0243 | -2.0130 | 0.7860 | 0.2088 | -0.3745 |
| -0.8902 | 0.5047 | -0.2524 | 0.3448 | 0.9041 | 0.9114 | -0.2863 | -0.8166 |
| -0.9411 | -0.4110 | -0.6765 | 0.0550 | 1.0317 | -0.1816 | -0.9203 | -1.0135 |
| 0.9521 | 1.9118 | 0.0713 | -0.2363 | 1.3385 | 0.4175 | -0.9889 | -1.1826 |
| 2.2044 | 0.5820 | -1.6353 | 0.6000 | 0.1835 | 0.1759 | 0.0837 | 0.5170 |
| 0.4692 | 0.7326 | -0.0812 | 0.1081 | -0.1921 | 0.9792 | -0.3091 | 1.2004 |
| 0.3076 | -0.7850 | 1.1400 | 0.3205 | -1.6009 | -0.7300 | -0.3171 | 1.0642 |
| 0.8647 | 1.0478 | -0.2443 | 0.6284 | -0.7990 | -0.2237 | -0.2238 | -0.1765 |
| -0.4219 | -0.1001 | 0.6018 | 0.3347 | -0.5952 | 1.7297 | -0.5890 | 0.6236 |

## 2. Attention Scores

### *head_0.npy — head 0*

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0877 | 0.1849 | 0.0378 | 0.0075 | 0.0116 | 0.0127 | 0.0216 | 0.0257 | 0.1573 | 0.0836 | 0.0402 | 0.0739 | 0.0417 | 0.0150 | 0.0549 | 0.1439 |
| 0.0132 | 0.0352 | 0.1493 | 0.0139 | 0.0009 | 0.1594 | 0.0113 | 0.0231 | 0.0447 | 0.2136 | 0.0052 | 0.0272 | 0.0516 | 0.0059 | 0.2157 | 0.0297 |
| 0.0113 | 0.0028 | 0.5439 | 0.0118 | 0.0009 | 0.1811 | 0.0032 | 0.0044 | 0.0175 | 0.0491 | 0.0046 | 0.0052 | 0.0216 | 0.0101 | 0.1140 | 0.0186 |
| 0.0165 | 0.0009 | 0.3601 | 0.2930 | 0.0151 | 0.1301 | 0.0130 | 0.0069 | 0.0106 | 0.0256 | 0.0225 | 0.0014 | 0.0149 | 0.0334 | 0.0494 | 0.0065 |
| 0.0175 | 0.0072 | 0.1464 | 0.3547 | 0.0997 | 0.0285 | 0.0530 | 0.0232 | 0.0384 | 0.0748 | 0.0642 | 0.0021 | 0.0220 | 0.0188 | 0.0401 | 0.0095 |
| 0.1148 | 0.0338 | 0.2447 | 0.0201 | 0.0164 | 0.2242 | 0.0047 | 0.0083 | 0.0251 | 0.0154 | 0.0118 | 0.0429 | 0.0372 | 0.0381 | 0.0578 | 0.1045 |
| 0.0621 | 0.1342 | 0.1392 | 0.0630 | 0.1232 | 0.0395 | 0.0615 | 0.0072 | 0.1115 | 0.0651 | 0.0882 | 0.0176 | 0.0065 | 0.0364 | 0.0255 | 0.0195 |
| 0.1164 | 0.4829 | 0.0284 | 0.0088 | 0.0707 | 0.0088 | 0.0231 | 0.0150 | 0.0559 | 0.0116 | 0.0373 | 0.0548 | 0.0062 | 0.0217 | 0.0086 | 0.0498 |
| 0.0082 | 0.0075 | 0.2758 | 0.0709 | 0.0062 | 0.2037 | 0.0338 | 0.0333 | 0.0905 | 0.1246 | 0.0100 | 0.0045 | 0.0230 | 0.0066 | 0.0906 | 0.0110 |
| 0.0327 | 0.0646 | 0.2220 | 0.0261 | 0.0205 | 0.0911 | 0.0207 | 0.0104 | 0.1967 | 0.1979 | 0.0227 | 0.0176 | 0.0056 | 0.0199 | 0.0371 | 0.0143 |
| 0.0015 | 0.0002 | 0.2470 | 0.1868 | 0.0039 | 0.2349 | 0.0247 | 0.0171 | 0.0197 | 0.1692 | 0.0155 | 0.0003 | 0.0126 | 0.0036 | 0.0611 | 0.0019 |
| 0.0126 | 0.0069 | 0.1738 | 0.0123 | 0.0007 | 0.3691 | 0.0077 | 0.0402 | 0.0185 | 0.0640 | 0.0031 | 0.0523 | 0.0767 | 0.0039 | 0.1134 | 0.0448 |
| 0.0853 | 0.3299 | 0.0284 | 0.0040 | 0.0190 | 0.0099 | 0.0120 | 0.0151 | 0.1130 | 0.0252 | 0.0429 | 0.1644 | 0.0311 | 0.0112 | 0.0122 | 0.0965 |
| 0.0251 | 0.0284 | 0.1823 | 0.0373 | 0.0162 | 0.0775 | 0.0301 | 0.0245 | 0.1522 | 0.1731 | 0.0592 | 0.0271 | 0.0508 | 0.0339 | 0.0524 | 0.0299 |
| 0.0038 | 0.0005 | 0.2688 | 0.0140 | 0.0005 | 0.4164 | 0.0025 | 0.0056 | 0.0089 | 0.0373 | 0.0024 | 0.0058 | 0.0374 | 0.0099 | 0.1784 | 0.0079 |
| 0.0058 | 0.0062 | 0.1417 | 0.0095 | 0.0006 | 0.1317 | 0.0073 | 0.0256 | 0.0333 | 0.0964 | 0.0045 | 0.0222 | 0.1314 | 0.0051 | 0.2703 | 0.1083 |

# 3. Tokenizer Vocabulary

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