Translation Performance (CER) Ilama-3.2-90b-Language Direction gemma2-9b gemma-7b Ilama3-70b Ilama3-8b Ilama-3.1-70b Ilama-3.1-8b mixtral-8x7b OLMo-1B Phi-3.5-mini Qwen-2.5-0.5B Qwen-2.5-1.5B Qwen-2.5-3B Family vision 0.967 0.344 3.559 6.289 de-en 0.411 0.439 0.383 0.419 0.345 0.576 5.210 7.742 7.931 en-de 0.462 0.520 0.426 0.467 0.665 2.197 0.988 0.711 2.537 6.861 7.948 8.222 6.534 Indo-European-Germanic 2.542 0.616 0.542 0.675 0.565 2.392 2.001 0.560 3.719 6.701 10.588 8.418 11.648 en-cs 1.013 0.541 0.503 0.631 0.406 0.640 1.061 0.402 3.450 6.944 8.607 8.002 6.829 cs-en fr-de 0.508 0.558 0.576 0.580 0.527 4.115 1.171 0.537 2.165 6.413 5.893 6.088 5.073 Indo-European-Romance de-fr 0.447 0.556 0.507 0.625 0.705 1.698 1.325 0.644 3.175 4.827 6.487 6.644 5.771 0.789 0.874 4.830 1.976 3.330 2.841 0.511 0.657 0.426 1.021 0.432 2.472 2.184 gu-en Indo-Iranian-0.573 1.219 1.813 1.135 0.487 2.062 3.055 0.521 3.865 3.696 12.399 9.532 4.778 en-gu Indic (Indo-0.621 0.966 0.464 0.613 0.391 0.728 0.728 0.394 2.476 2.327 2.315 2.629 bn-en 2.812 Aryan 0.619 1.648 1.227 0.613 0.483 1.491 2.697 0.468 4.122 3.788 4.116 3.509 3.979 en-bn 0.553 0.676 0.620 0.777 0.530 0.915 1.238 0.538 3.307 4.975 6.665 6.756 5.902 lt-en Indo-European-Baltic en-It 0.590 0.669 0.629 0.702 0.783 3.293 1.891 0.806 2.712 6.124 8.699 8.740 6.359 0.336 0.501 0.517 0.420 0.688 0.617 0.426 3.043 5.017 6.518 6.297 4.843 0.459 Indo-Europeanru-en Slavic 0.404 0.585 0.509 0.568 0.924 1.844 1.508 1.087 7.954 4.855 7.429 7.782 6.325 en-ru fi-en 0.361 0.627 0.587 0.663 0.462 0.900 1.429 0.453 3.302 5.718 7.613 7.467 6.156 Uralic en-fi 0.451 0.600 2.328 0.688 0.556 1.790 2.777 0.636 2.490 6.588 8.785 8.926 6.934 kk-en 0.597 0.923 0.777 0.871 0.591 3.043 1.289 0.585 2.549 4.606 4.231 4.728 3.725 0.697 0.958 0.725 2.357 0.669 2.883 2.912 0.666 3.941 4.019 8.599 8.180 4.852 en-kk Turkic 0.552 0.702 0.571 0.806 0.503 0.641 1.084 0.503 3.788 3.509 3.979 tr-en 4.122 4.116 en-tr 0.544 1.890 1.730 2.150 1.620 1.920 2.620 1.670 5.870 5.440 5.420 4.730 5.640 zh-en 0.576 0.554 0.453 0.536 0.446 0.643 0.615 0.455 1.340 2.114 4.586 3.942 3.634 Sino-Tibetan en-zh 0.676 0.623 0.681 1.898 1.418 5.677 9.213 1.308 7.954 10.710 17.551 18.484 11.492 0.793 0.988 0.427 0.789 3.788 3.509 3.979 et-en 0.458 0.961 2.062 0.441 4.122 4.116 Finno-Uaric 1.990 2.070 1.630 2.010 1.540 2.090 3.240 1.590 5.770 5.320 5.470 4.720 5.460 en-et