Translation Performance (WER) Ilama-3.2-90b-Language 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 Direction Family vision 1.099 0.720 3.699 7.672 7.784 6.251 de-en 0.564 0.591 0.519 0.568 0.480 0.476 5.002 en-de 0.663 0.727 0.602 0.662 0.857 2.472 1.257 0.896 3.643 7.988 9.908 10.062 7.715 Indo-European-Germanic 2.971 0.852 0.761 0.960 0.780 2.601 2.349 0.777 4.736 7.417 13.281 11.863 9.482 en-cs 1.311 0.716 0.671 0.825 0.553 0.798 1.227 0.548 3.899 6.840 8.648 7.970 6.875 cs-en fr-de 0.700 0.771 0.780 0.817 0.722 4.537 1.455 0.736 2.964 7.640 7.219 7.340 5.927 Indo-European-Romance de-fr 0.634 0.779 0.717 0.883 0.925 1.946 1.575 0.865 3.604 4.901 6.780 6.840 5.924 1.037 4.794 0.626 3.600 3.087 0.695 0.852 1.173 0.613 1.247 2.828 1.995 2.479 gu-en Indo-Iranian-0.824 1.388 3.087 1.432 0.752 2.251 3.127 0.791 4.292 3.897 12.915 10.065 5.303 en-gu Indic (Indo-0.852 1.290 0.854 0.944 1.008 0.560 4.156 2.873 7.873 3.646 9.388 bn-en 0.649 0.554 Aryan 0.882 2.081 1.734 0.858 0.715 1.756 3.140 0.701 3.873 2.739 2.568 7.678 en-bn 5.679 0.734 0.886 0.799 0.981 0.706 1.097 0.717 3.527 4.720 6.708 6.580 5.761 lt-en 1.441 Indo-European-Baltic en-It 0.863 0.951 0.930 1.053 1.105 4.047 2.518 1.135 3.490 7.808 11.787 11.653 8.071 0.473 0.667 0.619 0.687 0.574 0.852 0.795 0.582 3.277 4.813 6.758 6.355 4.958 Indo-Europeanru-en Slavic 0.580 0.799 0.703 0.791 1.200 2.336 1.910 1.374 46.168 6.003 9.132 9.427 7.555 en-ru fi-en 0.502 0.822 0.752 0.855 0.640 1.077 1.614 0.633 3.298 5.237 7.555 7.167 5.992 Uralic en-fi 0.659 0.878 2.471 1.058 0.827 2.267 4.051 0.946 4.241 9.390 13.591 13.621 9.991 kk-en 0.801 1.168 1.008 1.167 0.812 3.843 1.580 0.801 2.792 4.699 4.175 4.813 3.498 0.939 1.131 0.967 2.571 0.903 3.551 3.478 0.899 5.942 5.203 10.322 6.067 en-kk 10.956 Turkic 0.745 0.900 0.748 1.012 0.675 0.829 1.292 0.679 6.687 5.678 8.784 8.789 3.445 tr-en 0.751 0.765 0.561 0.899 0.523 0.731 1.102 0.549 5.902 4.832 7.489 7.232 2.754 en-tr 3.564 zh-en 0.760 0.732 0.628 0.724 0.620 0.827 0.820 0.633 1.415 1.944 4.483 3.396 Sino-Tibetan en-zh 1.076 1.371 1.427 10.378 6.259 30.965 33.504 5.930 46.168 57.253 99.063 107.203 54.252 1.130 0.576 44.556 88.345 et-en 0.946 0.554 0.914 1.024 2.015 0.560 54.556 67.453 53.655 Finno-Uaric 1.662 1.782 0.964 1.592 0.973 1.743 3.289 0.971 87.288 76.199 113.474 147.208 93.432 en-et