

Translation Performance (BLEU)														
Language Family	Direction	gemma2-9b	gemma-7b	llama3-70b	llama3-8b	llama3.1-70b	llama3.1-8b	mixtral-8x7b	llama3.2-90b-vision	OLMo-1B	Phi-3.5-mini	Qwen-2.5-0.5B	Qwen-2.5-1.5B	Qwen-2.5-3B
Indo-European-Germanic	de-en	36.624	32.744	40.779	35.282	44.100	24.663	31.998	44.163	6.755	6.048	2.452	3.102	4.871
	en-de	28.089	25.716	33.171	28.816	29.389	10.790	19.687	28.052	2.391	3.359	1.046	1.258	2.769
	en-cs	5.064	12.371	18.947	11.871	22.389	5.946	5.940	21.895	0.351	0.714	0.105	0.353	0.962
	cs-en	19.134	23.467	28.964	24.247	35.830	26.083	17.426	36.089	2.487	2.855	0.839	1.958	3.248
Indo-European-Romance	fr-de	22.788	19.213	23.462	18.496	26.850	4.235	12.158	26.811	3.760	1.843	1.847	2.110	3.774
	de-fr	32.529	21.668	28.161	17.820	25.077	12.629	13.616	26.107	3.115	4.167	2.219	2.396	3.847
Indo-Iranian-Indic (Indo-Aryan)	gu-en	27.801	12.800	23.249	14.335	31.684	5.451	8.896	31.459	0.510	0.288	0.141	0.792	1.604
	en-gu	10.048	1.095	3.040	0.334	15.949	0.845	0.150	15.281	0.067	0.076	0.023	0.037	0.162
	bn-en	19.646	19.043	32.645	22.501	40.706	24.189	19.223	39.878	1.443	2.088	1.347	0.905	2.229
	en-bn	5.860	4.439	6.564	8.252	20.612	5.054	0.562	20.444	0.513	1.460	0.490	1.023	0.605
Indo-European-Baltic	lt-en	21.769	11.178	19.427	12.992	24.557	13.087	9.102	23.670	1.003	1.181	0.448	1.109	1.347
	en-lt	11.267	6.009	9.226	5.464	8.235	1.278	1.312	8.096	2.195	0.201	0.113	0.122	0.354
Indo-European-Slavic	ru-en	41.704	26.634	32.678	27.170	35.509	26.028	25.536	35.285	4.892	4.245	1.914	2.862	4.953
	en-ru	36.235	17.593	25.508	19.744	17.651	8.512	9.914	16.284	0.091	2.282	0.553	0.911	2.426
Uralic	fi-en	39.929	15.704	22.973	19.244	28.552	16.947	10.566	28.998	4.246	1.964	0.537	1.260	2.716
	en-fi	24.417	7.840	6.087	7.146	16.654	4.373	1.563	15.206	1.263	0.606	0.154	0.177	0.435
Turkic	kk-en	19.290	4.425	14.441	7.979	18.916	3.652	2.681	19.554	0.349	0.416	0.168	0.430	0.388
	en-kk	5.589	0.163	5.005	0.061	8.297	0.032	0.183	8.011	0.196	0.037	0.013	0.016	0.077
	tr-en	25.091	15.978	25.687	15.386	31.091	21.865	11.582	30.746	2.383	1.395	0.574	0.335	2.541
	en-tr	17.974	0.308	0.499	0.286	0.473	0.410	0.235	0.468	0.116	0.131	0.074	0.130	0.092
Sino-Tibetan	zh-en	23.253	22.995	30.638	25.176	32.362	25.070	23.347	32.169	9.160	9.646	3.056	4.942	6.592
	en-zh	4.758	3.798	3.155	0.210	0.236	0.148	0.055	0.383	0.091	0.133	0.042	0.051	0.114
Finno-Ugric	et-en	23.074	14.369	35.596	20.366	34.667	21.424	8.304	35.107	5.066	2.192	1.865	5.001	1.618
	en-et	3.043	2.070	5.028	2.049	5.029	2.047	1.120	4.028	0.197	0.456	0.536	0.200	0.618