

<b>system</b>	<b>model</b>	<b>supervision</b>	<b>algorithm</b>	<b>FE</b>	<b>CE</b>
GIZA++	IBM model 4	unsupervised	EM	6.36	21.92
Berkeley	joint HMM	unsupervised	EM	5.34	21.67
fast_align	log-linear model	unsupervised	EM	15.20	28.44
Vigne	linear model	supervised	MERT	4.28	19.37
<i>this work</i>	log-linear model	unsupervised	SGD	5.01	20.24