## Why it Helps? Not Really Vocabulary (1/2)

	Length	<b>BLEU Components</b>	BP	
Base ENET	35326	48.1/21.3/11.3/6.4	0.979	
<b>ENRU+ENET</b>	35979	51.0/24.2/13.5/8.0	0.998	
<b>ENCS+ENET</b>	35921	51.7/24.6/13.7/8.1	0.996	
(The reference length in the matching tokenization was 36062)				

- Child models produce longer outputs ⇒ lower brevity penalty.
- But *n*-gram precisions also better.

1-gram present in	ENRU + ENET	<b>ENCS</b> + <b>ENET</b>
Child, Base, Ref	15902 (44.2 %)	15924 (44.3 %)
Child only	9635 (26.8 %)	9485 (26.4 %)
Child, Base	7209 (20.0 %)	7034 (19.6 %)
Child, Ref	3233 (9.0 %)	3478 (9.7 %)
Total	35979 (100.0 %)	35921 (100.0 %)

• The 3k better toks are regular ET words, not NEs or numbers.