# CUNI in WMT14：Chimera Still Awaits Bellerophon 

Ondřej Bojar，Martin Popel，Rudolf Rosa，Aleš Tamchyna
\｛bojar，popel，rosa，tamchyna\}@ufal.mff.cuni.cz
Institute of Formal and Applied Linguistics，Faculty of Mathematics and Physics，Charles University in Prague http：／／ufal．mff．cuni．cz

## English $\rightarrow$ Czech

Input

rule－based error correction in（S）MT outpu output parse corrected based on source not
We＇re FC Barcelona！

Final Results

| System | BLEU | TER | Manual |  |
| :---: | :---: | :---: | :---: | :---: |
| CU－DEPFIX | 21.1 | 0.670 | 0.373 | 」」」 |
| UEDIN－UNCONSTRAINED | 21.6 | 0.667 | 0.357 |  |
| CU－bojar | 20.9 | 0.674 | 0.333 | $\checkmark \checkmark$ |
| CU－FUNKY | 21.2 | 0.675 | 0.287 | 」」」」」 |
| Google Translate | 20.2 | 0.687 | 0.168 |  |
| Cu－tectomt | 15.2 | 0.716 | －0．177 | $\checkmark$ |
| CU－BOJAR＋full 2013 news | 20.7 | 0.677 | － |  |

## English $\rightarrow$ Hindi

Essentially baseline Moses

|  | Tokens |  |
| ---: | ---: | ---: |
| Sentences | Hindi | English |
| 276 k | 4.09 M | 3.95 M |
| 1.27 M | 27.27 M |  |
| 43.38 M | 945.43 M |  |
| 44.93 M | 976.80 M |  |

Morphological Processing of Hindi

| Back－off | \％of vocab．size |  |
| :--- | :---: | :---: |
| stem4 | 30 |  |
| lemma4 | 32 | －Siva Reddy＇s |
| lemma | 90 | POS tagger |
| form | 100 |  |

Impact of Word Alignment on BLEU

| English | Hindi | BLEU |
| :--- | :--- | :---: |
| stem4 | stem4 | $22.96+-1.17$ |
| lemma | lemma4 | $22.59+-1.17$ |
| lemma | lemma | $22.41+-1.20$ |

Other Failed Attempts
Factored setup（form $\rightarrow$ form＋POS）
with 10－gram POS－LM
Reverse Self－Training

