

Model	CER
LSTM-hybrid (speed perturb.)	33.5
CTC with language model	34.8
TDNN-hybrid, lattice-free MMI (speed perturb.)	28.2
Joint CTC-attention model (speed perturb.)	28.0
Extended-RNA (speed perturb.)	27.7
Forward-only Extended-RNA (speed perturb.)	29.4