| | Simulation | | | | Real data |
|----------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Ţ | BLEU | Reward | SuccessRate | SlotError | BLEU |
| S2S | 0.5931 ± 0.0182 | 0.8478 ± 0.0724 | 0.6667 ± 0.0302 | 0.0708 ± 0.0061 | 0.1278 ± 0.0039 |
| ST-S2S | 0.4297 ± 0.0099 | 0.4485 ± 0.0606 | 0.5310 ± 0.0302 | 0.4103 ± 0.0026 | 0.1411 ± 0.0078 |
| ST-E-S2S | 0.5856 ± 0.0123 | 1.0121 ± 0.0633 | 0.7691 ± 0.0285 | 0.0627 ± 0.0048 | 0.1513 ± 0.0046 |
| PT-S2S | 0.6685 ± 0.0050 | 1.1493 ± 0.1086 | 0.7945 ± 0.0503 | 0.0638 ± 0.0038 | 0.1609 ± 0.0055 |
| HRED | 0.6575 ± 0.0029 | 1.1187 ± 0.0241 | 0.8095 ± 0.0112 | 0.0862 ± 0.0120 | 0.1387 ± 0.0032 |
| ST-HRED | 0.5058 ± 0.0048 | 0.7860 ± 0.1085 | 0.7199 ± 0.0650 | 0.3763 ± 0.0046 | 0.1477 ± 0.0062 |
| PT-HRED | 0.7193 ± 0.0148 | 1.5247 ± 0.0413 | 0.9587 ± 0.0164 | 0.0405 ± 0.0051 | 0.1588 ± 0.0093 |