**ENGLISH**

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| **Type** | **R1** | **R2** | **R3** | **R4** | **R5** | **R6** | **R7** | **R8** | **R9** | **R10** |
| **SS** | The horse | that | ***e*** kicked | the wolf | on Tuesday | that | ***e*** patted | the lion | just now | went home. |
| **OS** | The horse | that | the wolf | kicked ***e*** | on Tuesday | that | ***e*** patted | the lion | just now | went home. |
| **SO** | The horse | that | ***e*** kicked | the wolf | on Tuesday | that | the lion | patted ***e*** | just now | went home. |
| **OO** | The horse | that | the wolf | kicked ***e*** | on Tuesday | that | the lion | patted ***e*** | just now | went home. |

* All stats are done with lmer4.0 package in R.

Model: summary (m\_RegionX = lmer (log\_RX ~ log\_R4\*RC1fac \* RC2fac + (1\*log\_R4\*dprimeT|Participant) + (1\*log\_R4\*dprimeT|Item), dataset)

* In RC 1, there is a robust SRC advantage.
* In RC 2: (notation: \*>> means significantly faster; \*<< means significantly slower)

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|  | Main Effects | | Interactions | | Rankings | Parallelism as a factor |
| Region 7 | RC1S | t = 2.228, p < .05 |  | | OS, OO \*>> SO, SS | Not sig. |
| Region 8 | RC2S | t = 4.831, p < .001 | RC1S:RC2S | t = -2.048, p < .05 | SO, OO \*>> OS, SS | t = -2.048, p < .05 |
| Region 9 | RC2S | t = -4.489, p < .001 | RC1S:RC2S | t = -2.143, p < .05 | OS, SS \*>> OO, SO | t = -2.143, p < .05 |
| Region 10 | RC1S | T = 2.164, p < .05 |  | | OS, OO \*>> SO, SS | Not sig. |

* Detailed comparisons:

|  |  |  |  |
| --- | --- | --- | --- |
| Regions | Rankings | Significance | Possible explanations |
| R7 | **OS** \*>> SS | Not sig. (Since RC2S is not sig. as a main effect) | Processing O in RC1 was longer, which encoded the structure better, so the S after O (OS) is processed significantly faster than the S after S (SS). |
|  | OO, SO |
| R8 | OS \*<< **SS** | \* | Parallelism. R8 is the region to show effects due to spillover for S as RC2. |
|  | OO, SO |
| R9 | OS, SS | \* | Parallelism. R9 is the region to show effects due to spillover for O as RC2. |
|  | **OO** \*>> SO |
| R10 | OS, SS | Not sig. (Since RC2S is not sig. as a main fr) |  |
|  | OO, SO |

**CHINESE**

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| **Type** | **R1** | **R2** | **R3** | **R4** | **R5** | **R6** | **R7** | **R8** | **R9** | **R10** | **R11** | **R12** |
| **SS** | Dem | on Tuesday | ***e*** kicked | the wolf | many times | de | just now | ***e*** patted | the lion | de | horse | went home. |
| **SO** | Dem | on Tuesday | ***e*** kicked | the wolf | many times | de | just now | the lion | patted ***e*** | de | horse | went home. |
| **OS** | Dem | on Tuesday | the wolf | ***e*** kicked | many times | de | just now | ***e*** patted | the lion | de | horse | went home. |
| **OO** | Dem | on Tuesday | the wolf | ***e*** kicked | many times | de | just now | the lion | patted ***e*** | de | horse | went home. |