ENGLISH

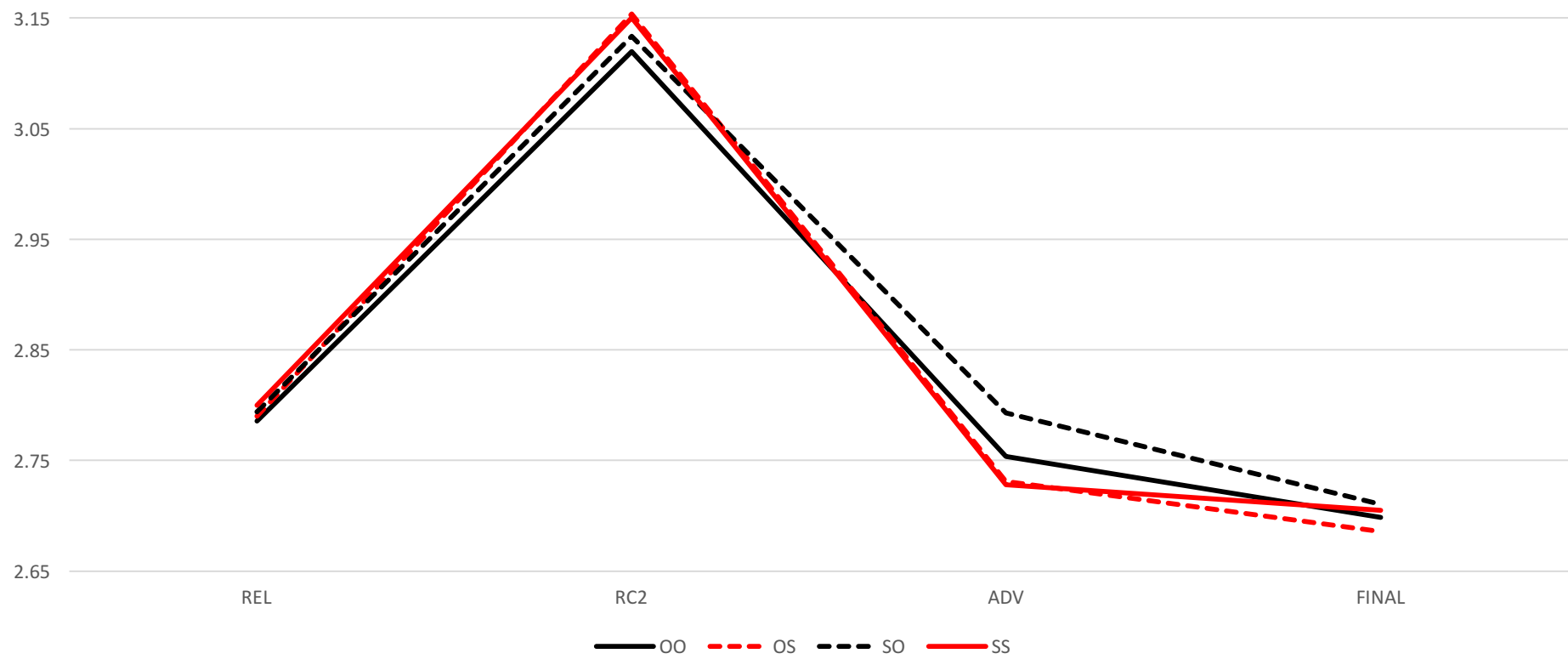| Type	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
SS	The horse	that	*e* kicked	the wolf	on Tuesday	that	*e* patted	the lion	just now	went home.
OS	The horse	that	the wolf	kicked *e*	on Tuesday	that	*e* patted	the lion	just now	went home.
SO	The horse	that	*e* kicked	the wolf	on Tuesday	that	the lion	patted *e*	just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

ENG_RC1 / ENG-RC2
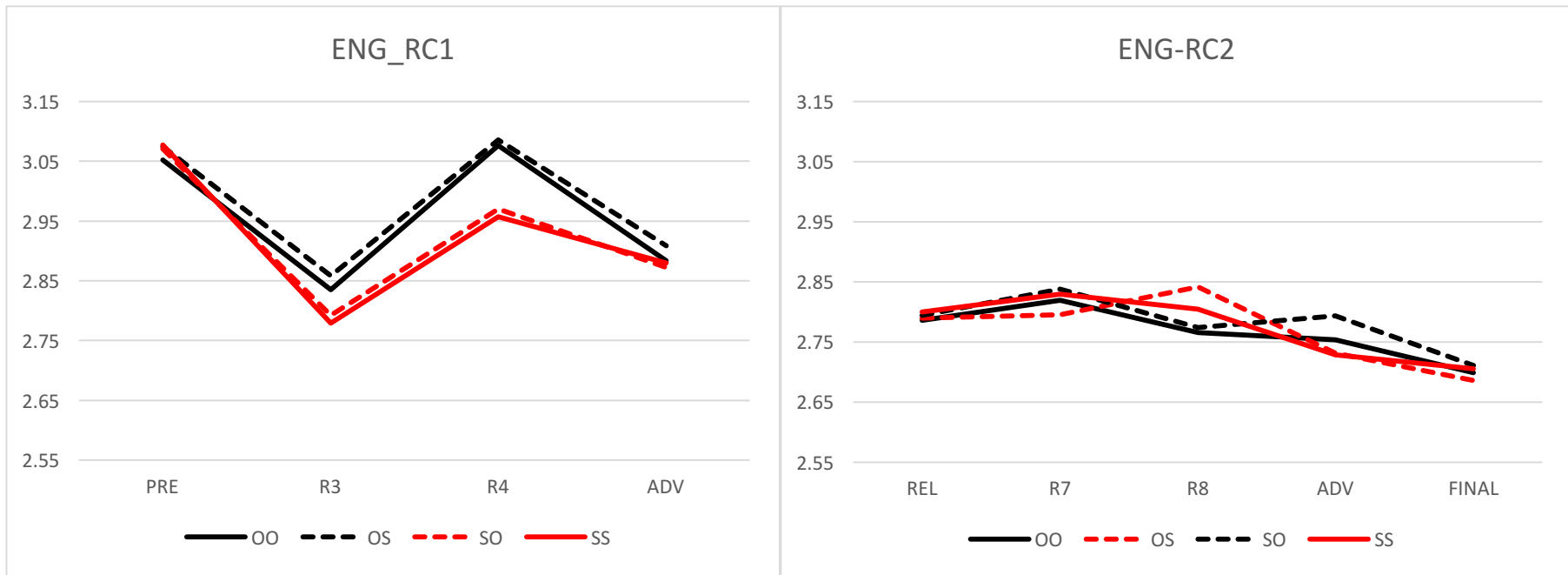
- All stats are done with lmer4.0 package in R.
  Model: m_RegionX = lmer (log_RX ~ log_R4*RC1fac * RC2fac + (1*log_R4*dprimeT|Participant) + (1*log_R4*dprimeT|Item), dataset)
        m_RegionX_Parallelism = lmer(log_RX ~ ParFac * RC2fac + (1*dprimeT*ParFac * RC2fac|Participant)+(1|Item), wholeENG)

- In RC 1, there is a robust **SRC advantage**.

- Notation: **A*<< B** means A is processed significantly faster than B (intuitively A takes less time); **A *>> B** means A is significantly slower than B. **A << B** means A is only numerically processed faster than B; **A >> B** means A is only numerically processed slower than B.

	Main Effects		Main Interactions (OO, SS)	Rank Main effects	Parallelism	Parallelism Interactions (OS, SS)
R3	RC1S	t = -5.155, p < .001		R1O *>> R1S		
R4	RC1S	t = -8.253, p < .001		R1O *>> R1S		
R7	RC1S	t = 2.228, p < .05		R1O *<< R1S	Not sig.	t = 2.228, p < .05
R8	RC2S	t = 4.831, p < .001	RC1S:RC2S t = -2.048, p < .05	R2O *<< R2S	Par t = -2.048, p < .05 RC2S t = 4.831, p < .001	Not sig.
R9	RC2S	t = -4.489, p < .001	RC1S:RC2S t = -2.143, p < .05	R2O *>> R2S	Par t = -2.143, p < .05 RC2S t = -4.489, p < .001	Not sig.
R10	RC1S	t = 2.164, p < .05		R1O *<< R1S	Not sig.	t = 2.164, p <.05
R78	RC2S	t = 2.584, p < .05		R2O *<< R2S	Not sig.	Not sig.
R789	Not sig.				Not sig.	Not sig.

Regions	Rankings	Pairwise significance	Possible explanations
R7	**OS** *<< SS	Not sig.	
	OO, SO		
R8	OS *>> **SS**	S *<< O	Parallelism. R8 is the region to show effects due to spillover for S as RC2.
	OO, SO		
R9	OS, SS	S *>> O	Parallelism. R9 is the region to show effects due to spillover for O as RC2.
	OO *<< SO		
R10	OS, SS	Not sig.	
	OO, SO		
R78	**OO, SO *<< SS, OS**	**(2 levels)**	RC2S main effect is driven by OO being very fast (not for SO).
	OO << SO << SS << OS **OO *<< SS** **OO *<< OS**	**(4 levels)**	

ENG_RC2

CHINESE

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.
OS	Dem	on Tuesday	the wolf	*e* kicked	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.
OO	Dem	on Tuesday	the wolf	*e* kicked	many times	de	just now	the lion	patted *e*	de	horse	went home.
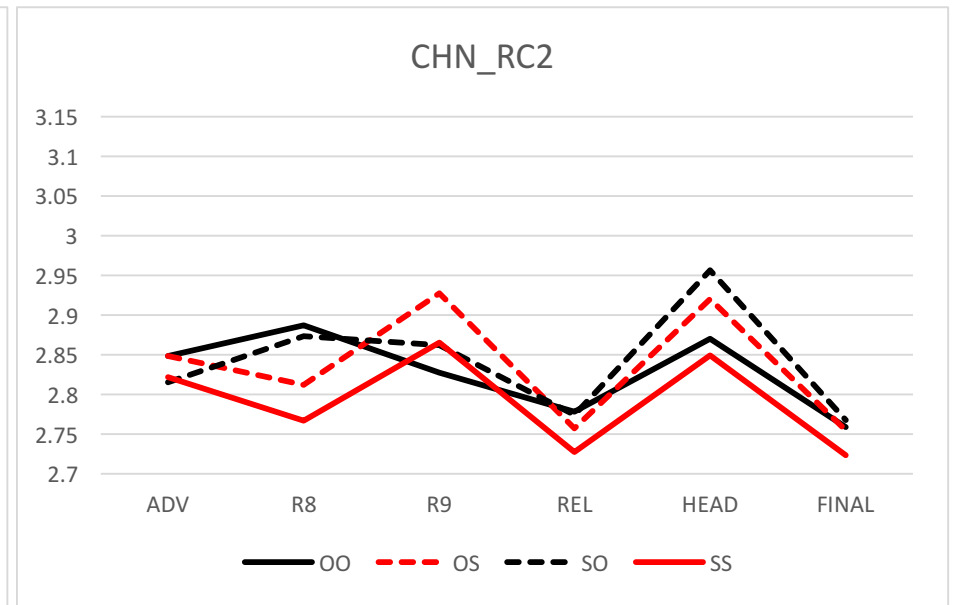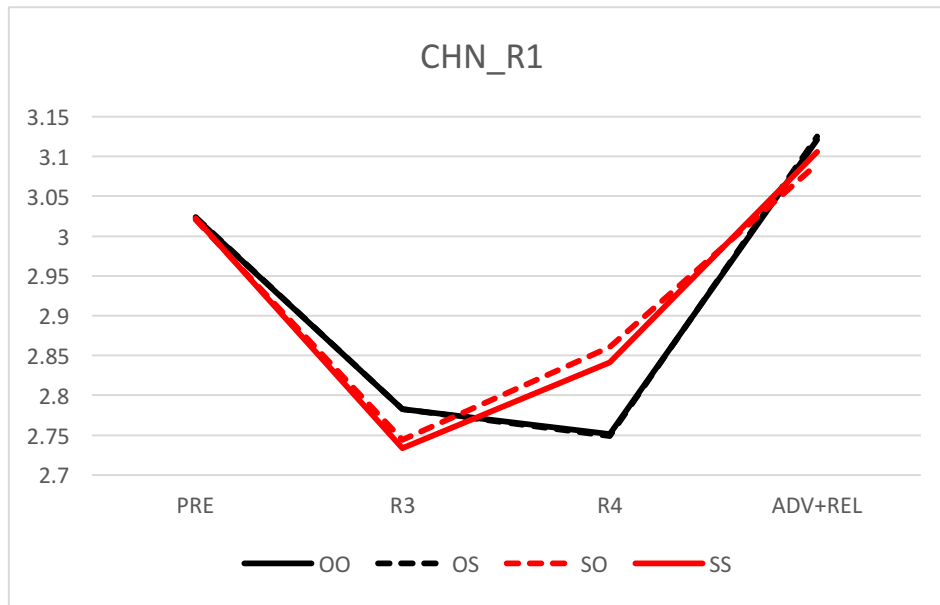
- Same stats as the English dataset.

- In RC 1, there is a robust **ORC advantage**. This is to the opposite of English.

- Notation: **A*<< B** means A is processed significantly faster than B (intuitively A takes less time); **A *>> B** means A is significantly slower than B. **A << B** means A is only numerically processed faster than B; **A >> B** means A is only numerically processed slower than B.

	Main Effects		Interactions (OO, SS)	Rank Main effects	Parallelism	Parallelism Interaction (OS, SS)
R3	RC1S	t = -3.607, p < .001		R1O *>> R1S		
R4	RC1S	t = 8.961, p < .001		R1O *<< R1S		
R5	RC1S	t = 2.863, p < .01		R1O *<< R1S		
R7	RC1S	t = -2.289, p < .05		R1O *>> R1S	Not sig.	t = -2.289, p < .05
R8	RC1S	t = -2.557, p < .05		R1O *>> R1S	Par Not sig.	t = -2.557, p < .05
	RC2S	t = -7.876, p < .001		R2O *>> R2S	RC2S t = -7.876, p < .001	
R9	RC2S	t = 4.397, p < .001	RC1S:RC2S t = -4.103, p < .001	R2O *<< R2S	Par t = -4.103, p < .001 RC2S t = 4.397, p < .001	Not sig.
R10	RC2S	t = -3.134, p < .01		R2O *>> R2S	RC2S t = -3.134, p < .01	Not sig.
R11	Almost RC2S	Not sig. t = 1.856, p = 0.0675	RC1S:RC2S t = -5.121, p < .001		Par t = -5.121, p < .001	Not sig.
R12	RC2S	t = -2.836, p < .01	RC1S:RC2S t = -2.361, p < .05	R2O *>> R2S	t = -2.361, p < .05 RC2S t = -2.836, p < .01	Not sig.
R89	RC1S	t = -2.315, p < .05	RC1S:RC2S t = -3.815, p < .001	R1O *>> R1S R2O *>> R2S	t = -3.815, p < .001 RC2S t = -2.327, p < .05	t = -2.315, p < .05
	RC2S	t = -2.327, p < .05				
R8910	RC1S	t = -2.595, p < .01	RC1S:RC2S t = -4.227, p < .001	R1O *>> R1S R2O *>> R2S	t = -4.227, p < .001 RC2S t = -3.180, p < .01	t = -2.595, p < .01
	RC2S	t = -3.180, p < .01				

Regions	Rankings	Pairwise significance	Conclusion:
R7	OS, SS	Not sig.	**ENG-postnominalRC** (V/NP (i.e. RC2))→
	OO *>> **SO**		1. Single RC has S advantage.
R8	OS *>> **SS**	S *<< O	2. Parallelism is mainly shown on OO.
	OO, SO		3. OS, SS, SO have no distinction.
R9	OS *>> **SS**	S *>> O	4. There is a latency in main effects, possibly due to retrieval of the head.
	OO *<< SO		
R10	OS *>> **SS**	S *<< O	
	OO, SO		**CHN-prenominalRC** (V/NP (i.e. RC2))→
R11	OS *>> **SS**	Almost S *<< O	1. Single RC has O advantage;
	OO, SO		2. Parallelism is mainly shown on SS;
R12	OS *>> **SS**	S *<< O	3. SO, OS, OO have no distinction.
	OO, SO		4. There is no latency in main effects, since there is no retrieval.
R89/R8910	**SS *<< OO << OS << SO**	**(4 levels)**	**CHN** (V in RC2)→ **SS * << OS << OO *<< SO**
HEAD	**SS << OO *<< OS << SO**	**(4 levels)**	**CHN** (HEAD) → **SS << OO *<< OS << SO**

CHN_RC2