

A Post-evaluation Results

	full	sub.	forms									
forms	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
heads	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
dependency types	yes	no	no	yes	no	no	no	no	no	no	no	no
named entity types	yes	no	no	yes	no	no	no	no	no	no	no	no
part-of-speech	yes	no	no	yes	no	no	no	no	no	no	no	no
height	yes	no	no	yes	no	no	no	no	no	no	no	no
is root	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
embedding size	32	32	32	32	32	32	32	32	32	32	32	32
children	yes	yes	yes	no	no	yes	yes	yes	yes	yes	yes	yes
child aggregator	max	max	mean	-	-	mean	max	max	mean	mean	mean	mean
child layer neurons	256	256	256	-	-	1024	1024	1024	1024	1024	1024	1024
# child layers	1	1	1	-	-	1	1	1	1	1	1	1
incoming edges	yes	no	no	yes	no	no	no	no	no	no	no	no
outgoing edges	yes	no	no	yes	no	no	no	no	no	no	no	no
history	yes	no	no	yes	no	no	no	no	no	no	no	no
history embedding size	50	-	-	50	-	-	-	-	-	-	-	-
feed-forward neurons	512	512	512	512	512	512	512	512	512	1024	2048	4096
# layers	1	1	1	1	1	1	1	2	5	3	3	3
input dropout	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
child dropout	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
layer dropout	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.65	0.65
gold	0.724	0.733	-	-	0.679	-	-	-	-	-	-	-
gold+silver	0.739	0.744	0.74	0.723	0.688	0.747	0.74	0.748	0.737	0.756	0.757	0.756

Table 5: Configurations of the post-evaluation experiments with DAG F1 score on the English Development set. Not listed are the previous action counts and action and node ratios. They were enabled in all experiments.