

	SUPAR (UDPipe)							
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (Perseus)	77.89	71.47	78.22	71.89	77.75	71.10	77.95	71.49
Ancient Greek (PROIEL)	85.45	81.12	85.35	80.94	85.74	81.26	85.51	81.11
Bulgarian (BTB)	93.03	89.09	92.93	89.02	93.17	89.12	93.04	89.08
Catalan (AnCorà)	93.06	90.74	93.11	90.79	93.15	90.81	93.11	90.78
Chinese (GSD)	80.67	75.89	81.09	76.41	80.74	76.09	80.83	76.13
English (EWT)	88.17	85.03	87.93	84.57	88.40	85.14	88.17	84.91
Finnish (TDT)	88.58	84.91	88.69	84.89	88.26	84.42	88.51	84.74
Hebrew (HTB)	89.69	86.18	89.55	85.95	89.40	85.72	89.55	85.95
Russian (GSD)	88.45	83.98	88.28	83.76	88.20	83.94	88.31	83.89
Russian (SynTagRus)	93.24	91.23	93.27	91.22	93.19	91.16	93.23	91.20
Tamil (TTB)	71.04	60.58	69.83	59.23	69.98	60.48	70.28	60.10
Uyghur (UDT)	76.59	62.96	76.18	62.20	76.42	62.39	76.40	62.52
Wolof (WTB)	82.81	76.04	82.20	75.18	82.18	75.39	82.40	75.54
Kazakh (KTB)	-	-	-	-	-	-	-	-
French (GSD)	92.43	89.16	92.41	89.17	92.27	89.05	92.37	89.13
German (GSD)	85.16	79.79	84.99	79.66	85.23	79.85	85.13	79.77
Italian (ISDT)	92.41	89.76	92.21	89.70	92.14	89.51	92.25	89.66
Romanian (RRT)	90.29	84.41	90.63	84.68	90.33	84.39	90.42	84.49
Spanish (AnCorà)	92.54	90.02	92.34	89.74	92.44	89.92	92.44	89.89
Spanish (GSD)	89.93	86.98	90.04	86.92	90.13	86.99	90.03	86.96
Norwegian (Bokmaal)	90.76	88.53	90.90	88.68	90.75	88.45	90.80	88.55
Norwegian (Nynorsk)	89.22	86.68	89.77	87.31	89.84	87.36	89.61	87.12
Dutch (Alpino)	89.65	86.19	89.38	85.84	89.45	86.06	89.49	86.03
Dutch (LassySmall)	87.86	83.76	87.89	83.92	88.14	84.04	87.96	83.91
Czech (PDT)	92.35	89.31	92.39	89.36	92.42	89.39	92.39	89.35
Czech (CAC)	91.79	88.34	91.72	88.10	91.75	88.06	91.75	88.17
Czech (CLTT)	87.18	83.14	87.16	82.87	86.46	82.41	86.93	82.81
Czech (FicTree)	91.77	87.91	91.64	87.68	91.91	87.88	91.77	87.82

Evaluation values removing cycles	SyntacticPointer (UDPipe)							
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (Perseus)	77.13	71.09	77.39	71.57	76.92	70.77	77.15	71.14
Ancient Greek (PROIEL)	85.02	80.46	85.21	80.78	85.32	80.94	85.18	80.73
Bulgarian (BTB)	92.25	87.96	92.50	88.17	92.60	88.90	92.45	88.14
Catalan (AnCorà)	93.06	90.70	93.12	90.80	93.11	90.79	93.10	90.76
Chinese (GSD)	81.33	76.96	81.01	76.78	81.24	76.95	81.19	76.90
English (EWT)	88.51	85.43	88.58	85.47	88.42	85.84	88.50	85.43
Finnish (TDT)	87.57	83.69	87.57	83.81	87.64	83.84	87.59	83.78
Hebrew (HTB)	89.29	85.51	89.08	85.44	89.18	85.47	89.18	85.47
Russian (GSD)	86.86	82.05	87.07	82.36	86.99	82.14	86.97	82.18
Russian (SynTagRus)	93.20	91.17	93.18	91.19	93.15	91.13	93.18	91.16
Tamil (TTB)	66.21	55.46	67.72	56.56	66.87	55.96	66.93	55.99
Uyghur (UDT)	75.61	61.61	75.25	61.46	75.27	60.88	75.38	61.32
Wolof (WTB)	82.77	75.46	82.16	74.95	82.01	75.10	82.31	75.17
Kazakh (KTB)	-	-	-	-	-	-	-	-
French (GSD)	92.24	88.92	92.42	89.24	92.11	88.95	92.26	89.04
German (GSD)	85.91	80.80	85.14	79.82	85.72	80.51	85.59	80.38
Italian (ISDT)	92.41	89.81	92.34	89.86	92.58	90.00	92.44	89.89
Romanian (RRT)	89.86	83.72	89.95	83.93	89.76	83.72	89.86	83.79
Spanish (AnCorà)	92.22	89.68	91.98	89.31	92.14	89.63	92.11	89.54
Spanish (GSD)	90.02	86.91	89.86	86.83	89.67	86.69	89.85	86.81
Norwegian (Bokmaal)	91.46	89.21	91.48	89.27	91.58	89.34	91.51	89.27
Norwegian (Nynorsk)	90.42	87.99	90.43	87.92	90.75	88.27	90.53	88.06
Dutch (Alpino)	90.00	86.33	89.92	86.36	89.83	86.33	89.92	86.34
Dutch (LassySmall)	88.25	83.82	87.98	83.47	88.01	83.72	88.08	83.67
Czech (PDT)	92.58	89.43	92.59	89.47	92.60	89.43	92.59	89.44
Czech (CAC)	91.64	87.83	91.50	87.85	91.56	87.90	91.57	87.86
Czech (CLTT)	83.94	78.19	83.86	79.04	83.26	78.22	83.69	78.48
Czech (FicTree)	91.64	87.14	92.19	87.99	92.07	87.76	91.97	87.63

	DepToLabel (UDPipe)							
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (Perseus)	68.99	60.64	68.66	60.20	68.45	59.73	68.70	60.19
Ancient Greek (PROIEL)	80.00	74.60	80.20	74.67	80.50	75.00	80.23	74.76
Bulgarian (BTB)	89.82	85.28	89.83	85.53	89.70	85.45	89.78	85.42
Catalan (AnCorà)	89.61	86.06	90.14	86.87	89.71	86.26	89.82	86.40
Chinese (GSD)	74.72	68.20	76.24	69.86	70.98	64.47	73.98	67.51
English (EWT)	85.38	81.26	85.41	81.37	85.19	81.36	85.33	81.33
Finnish (TDT)	82.79	78.18	82.88	78.34	82.50	77.71	82.72	78.08
Hebrew (HTB)	85.26	80.81	85.21	80.77	85.47	81.13	85.31	80.90
Russian (GSD)	83.47	78.09	83.52	77.83	83.42	77.91	83.47	77.94
Russian (SynTagRus)	90.47	88.05	90.55	88.07	90.39	87.85	90.47	87.99
Tamil (TTB)	62.44	50.43	62.95	50.38	61.89	50.03	62.43	50.28
Uyghur (UDT)	72.88	58.50	72.86	58.41	72.51	58.23	72.75	58.38

	Dani et al.									
	SuPar		SyntacticPointer		Difference		BIAffine reference value		Left-Right reference value	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
(Average of 3 experiments)										
Bulgarian (BTB)	93.04	89.08	92.45	88.14	0.59	0.93	94.42±0.02	90.70±0.04	94.28±0.06	90.66±0.11
Catalan (AnCorà)	93.11	90.78	93.10	90.76	0.01	0.02	93.83±0.02	91.96±0.01	94.07±0.06	92.26±0.05
Czech (PDT)	92.39	89.35	92.59	89.44	-0.20	-0.09	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05
Czech (CAC)	91.75	88.17	91.57	87.86	0.19	0.31	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05
Czech (CLTT)	86.93	82.81	83.69	78.48	3.25	4.32	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05
Czech (FicTree)	91.77	87.82	91.97	87.63	-0.19	0.19	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05
Dutch (Alpino)	89.49	86.03	89.92	86.34	-0.42	-0.31	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08
Dutch (LassySmall)	87.96	83.91	88.08	83.67	-0.12	0.24	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08
Russian (GSD)	88.17	84.91	88.50	85.43	-0.34	-0.51	90.86±0.15	88.92±0.19	90.93±0.11	88.99±0.11
French (GSD)	92.37	89.13	92.26	89.04	0.11	0.09	90.97±0.09	88.22±0.12	90.90±0.04	88.14±0.10
German (GSD)	85.13	79.77	85.59	80.38	-0.46	-0.61	87.28±0.07	82.99±0.07	87.06±0.05	82.63±0.01
Italian (ISDT)	92.25	89.66	92.44	89.89	-0.19	-0.23	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02
Norwegian (Bokmaal)	90.80	88.55	91.51	89.27	-0.70	-0.72	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07
Norwegian (Nynorsk)	89.61	87.12	90.53	88.06	-0.92	-0.94	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07
Romanian (RRT)	88.17	84.91	88.50	83.79	0.56	0.70	91.44±0.11	85.80±0.14	91.58±0.08	86.00±0.07
Russian (SynTagRus)	93.23	91.20	93.18	91.16	0.06	0.04	94.43±0.01	93.08±0.03	94.71±0.07	93.38±0.09
Spanish (AnCorà)	92.44	89.89	92.11	89.54	0.33	0.35	93.09±0.05	91.11±0.03	93.23±0.03	91.28±0.02
Spanish (GSD)	90.03	86.96	89.85	86.81	0.18	0.15	93.09±0.05	91.11±0.03	93.23±0.03	91.28±0.02
Average	90.61	87.20	90.51	86.98	0.10	0.22				
									0.38	0.95
									1.01	1.68

	Dani et al.											
	DepToLabel		SyntacticPointer		Difference		BIAffine reference value		Left-Right reference value		Error reduction (Syn. vs D2L.)	
(Average of 3 experiments)	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	89.78	85.42	92.45	88.14	-2.67	-2.72	94.42±0.02	90.70±0.04	94.28±0.06	90.66±0.11	-35.32	-22.97
Catalan (AnCorà)	89.82	86.40	93.10	90.76	-3.28	-4.37	93.83±0.02	91.96±0.01	94.07±0.06	92.26±0.05	-47.46	-47.28
Czech (PDT)	89.32	86.55	92.59	89.44	-3.27	-2.90	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05	-44.08	-27.44
Czech (CAC)	88.27	85.16	91.57	87.86	-3.30	-2.70	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05	-39.09	-22.24
Czech (CLTT)	77.30	72.85	83.69	78.48	-6.39	-5.64	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05	-39.17	-26.20
Czech (FicTree)	87.87	83.95	91.97	87.63	-4.09	-3.68	93.97±0.02	91.23±0.03	94.19±0.04	91.45±0.05	-50.95	-29.72
Dutch (Alpino)	84.41	79.98	89.92	86.34	-5.50	-6.36	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-54.58	-46.56
Dutch (LassySmall)	83.71	78.38	88.08	83.67	-4.37	-5.29	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-54.41	-46.41
English (EWT)	85.33	81.33	88.50	85.43	-3.18	-4.10	90.86±0.15	88.92±0.19	90.93±0.11	88.99±0.11	-27.63	-28.11
French (GSD)	88.65	85.78	92.26	89.04	-3.60	-3.26	90.97±0.09	88.22±0.12	90.90±0.04	88.14±0.10	-40.53	-29.74
German (GSD)	80.95	74.95	85.59	80.38	-4.64	-5.43	87.28±0.07	82.99±0.07	87.06±0.05	82.63±0.01	-32.20	-27.65
Italian (ISDT)	89.80	87.04	92.44	89.89	-2.65	-2.85	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02	-35.02	-28.16
Norwegian (Bokmaal)	87.87	84.50	91.51	89.27	-3.92	-4.77	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-46.19	-44.50
Norwegian (Nynorsk)	84.87	81.02	90.53	88.06	-5.66	-7.04	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-59.82	-58.99
Romanian (RRT)	86.67	81.44	89.86	83.79	-3.19	-2.35	91.44±0.11	85.80±0.14	91.58±0.08	86.00±0.07	-31.42	-14.50
Russian (SynTagRus)	90.47	87.99	93.85	91.16	-2.71	-3.17	94.43±0.01	93.08±0.03	94.71±0.07	93.38±0.09	-39.67	-35.91
Spanish (AnCorà)	89.33	86.11	92.11	89.54	-2.78	-3.43	93.09±0.05	91.11±0.03	93.23±0.03	91.28±0.02	-35.29	-32.76
Spanish (GSD)	86.32	82.71	89.85	86.81	-3.53	-4.10	93.09±0.05	91.11±0.03	93.23±0.03	91.28±0.02	-34.75	-31.08
Average	86.69	82.86	90.51	86.98	-3.82	-4.12					-40.88	-32.57
											-40.23	-31.65

Wolof (WTB)	76,80	69,60	76,26	69,31	77,25	69,95	76,77	69,62
Kazakh (KTB)	-	-	-	-	-	-	-	-
French (GSD)	89,07	86,32	88,25	85,30	88,64	85,71	88,65	85,78
German (GSD)	80,69	74,82	81,06	74,89	81,10	75,14	80,95	74,95
Italian (ISDT)	90,00	87,25	89,78	86,95	89,61	86,93	89,80	87,04
Romanian (RRT)	86,21	80,94	86,73	81,49	87,07	81,89	86,67	81,44
Spanish (AnCora)	89,33	86,12	89,23	85,90	89,43	86,32	89,33	86,11
Spanish (GSD)	86,17	82,51	86,08	82,42	86,72	83,20	86,32	82,71
Norwegian (Bokmaal)	87,61	84,51	87,54	84,51	87,60	84,48	87,58	84,50
Norwegian (Nynorsk)	86,37	82,90	84,50	80,66	83,74	79,49	84,87	81,02
Dutch (Alpino)	84,66	80,27	84,12	79,57	84,46	80,10	84,41	79,98
Dutch (LassySmall)	83,86	78,52	83,67	78,29	83,60	78,32	83,71	78,38
Czech (PDT)	88,89	86,05	89,53	86,79	89,55	86,80	89,32	86,55
Czech (CAC)	88,12	84,94	88,36	85,44	88,33	85,10	88,27	85,16
Czech (CLTT)	77,17	72,64	77,30	73,18	77,42	72,72	77,30	72,85
Czech (FicTree)	88,00	84,23	87,84	83,69	87,78	83,94	87,87	83,95

SUPAR (UDPipe)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Coptic (Scriptorium)	88,13	83,53	88,92	84,53	88,63	84,42	88,56	84,16
Indonesian (GSD)	85,29	78,51	85,25	78,51	85,41	78,76	85,32	78,59
Old Church Slavonic (PROIEL)	84,56	78,92	84,46	78,77	84,24	78,63	84,42	78,77
Polish (PDB)	92,48	87,05	92,45	87,11	92,52	87,10	92,48	87,09
Sanskrit (Vedic)	-	-	-	-	-	-	-	-

SyntacticPointer (UDPipe)								
Evaluation values removing cycles	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Coptic (Scriptorium)	88,46	84,09	88,41	84,15	89,14	84,90	88,67	84,38
Indonesian (GSD)	84,62	77,75	84,49	77,74	84,45	77,75	84,52	77,75
Old Church Slavonic (PROIEL)	85,97	80,79	85,50	79,99	85,35	79,98	85,61	80,25
Polish (PDB)	92,24	86,57	92,16	86,38	92,10	86,34	92,17	86,43
Sanskrit (Vedic)	-	-	-	-	-	-	-	-

DepToLabel (UDPipe)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Coptic (Scriptorium)	84,96	78,80	81,94	72,68	85,00	79,61	83,97	77,03
Indonesian (GSD)	82,52	75,62	82,11	75,61	82,15	75,58	82,26	75,60
Old Church Slavonic (PROIEL)	79,90	72,55	79,55	72,45	79,90	72,50	79,78	72,50
Polish (PDB)	88,33	84,50	88,79	85,02	88,79	85,06	88,64	84,86
Sanskrit (Vedic)	-	-	-	-	-	-	-	-

UPAR (UDPipe)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Arabic (PADT)	87,21	81,09	87,44	81,23	87,47	81,34	87,37	81,22
Basque (BDT)	84,06	79,95	83,86	79,75	83,88	79,70	83,93	79,80
Japanese (GSD)	91,78	89,19	92,04	89,44	91,08	88,51	91,63	89,05
Korean (GSD)	86,46	82,03	86,34	81,90	86,47	82,00	86,42	81,98
Korean (Kaist)	86,73	84,48	86,91	84,57	86,76	84,41	86,80	84,49
Turkish (IMST)	72,88	64,17	72,55	63,74	72,92	64,07	72,78	63,99

SyntacticPointer (UDPipe)								
Evaluation values removing cycles	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Arabic (PADT)	86,68	80,44	86,59	80,29	86,82	80,76	86,70	80,50
Basque (BDT)	82,89	78,39	82,79	78,34	82,83	78,34	82,84	78,36
Japanese (GSD)	93,10	91,01	92,86	90,85	93,10	91,01	93,02	90,96
Korean (GSD)	85,50	80,88	85,74	81,19	85,34	80,98	85,53	81,02
Korean (Kaist)	87,01	84,66	86,97	84,65	86,80	84,50	86,93	84,60
Turkish (IMST)	69,16	60,46	69,24	60,39	69,18	60,24	69,19	60,36

DepToLabel (UDPipe)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Arabic (PADT)	81,76	75,67	82,61	76,81	82,45	76,53	82,27	76,34
Basque (BDT)	76,92	71,33	76,78	71,08	76,85	71,25	76,85	71,22
Japanese (GSD)	86,13	82,38	88,04	84,00	87,03	83,31	87,07	83,23
Korean (GSD)	82,05	77,09	82,10	77,24	82,36	77,72	82,17	77,35
Korean (Kaist)	84,74	81,87	84,23	81,35	84,51	81,56	84,49	81,59
Turkish (IMST)	66,36	56,42	65,58	55,93	65,94	56,08	65,96	56,14

Mark et al.										
(Average of 3 experiments)	SuPar		SyntacticPointer		Difference		BiAffine reference value		Error reduction (Syn. vs Su.)	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (Perseus)	77,95	71,49	77,15	71,14	0,81	0,34	75,5	70,4	3,53	1,19
Chinese (GSD)	80,83	76,13	81,19	76,90	-0,36	-0,77	88,2	85,9	-1,91	-3,32
English (EWT)	88,17	84,91	88,50	85,43	-0,34	-0,51	90,8	89,0	-2,93	-3,52
Finnish (TDT)	88,51	84,74	87,59	83,78	0,92	0,96	90,5	88,6	7,39	5,92
Hebrew (HTB)	89,55	85,95	89,18	85,47	0,36	0,48	90,8	88,6	3,36	3,28
Russian (GSD)	88,31	83,89	86,97	82,18	1,34	1,71	88,9	85,2	10,26	9,60
Tamil (TTB)	70,28	60,10	66,93	55,99	3,35	4,10	76,9	71,0	10,13	9,32
Uyghur (UDT)	76,40	62,52	75,38	61,32	1,02	1,20	75,2	58,9	4,14	3,10
Wolof (WTB)	82,40	75,54	82,31	75,17	0,08	0,37	88,5	84,5	0,47	1,48
Average	82,49	76,14	81,69	75,26	0,80	0,88			3,83	3,01
									4,36	3,54

Mark et al.										
(Average of 3 experiments)	DepToLabel		SyntacticPointer		Difference		BiAffine reference value		Error reduction (Syn. vs D2L.)	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (Perseus)	68,70	60,19	77,15	71,14	-8,45	-10,95	75,5	70,4	-36,96	-37,96
Chinese (GSD)	73,98	67,51	81,19	76,90	-7,21	-9,39	88,2	85,9	-38,36	-40,63
English (EWT)	85,33	81,33	88,50	85,43	-3,18	-4,10	90,8	89,0	-27,63	-28,11
Finnish (TDT)	82,72	78,08	87,59	83,78	-4,87	-5,70	90,5	88,6	-39,25	-35,16
Hebrew (HTB)	85,31	80,90	89,18	85,47	-3,87	-4,57	90,8	88,6	-35,78	-31,46
Russian (GSD)	83,47	77,94	86,97	82,18	-3,50	-4,24	88,9	85,2	-26,89	-23,80
Tamil (TTB)	62,43	50,28	66,93	55,99	-4,51	-5,71	76,9	71,0	-13,63	-12,98
Uyghur (UDT)	72,75	58,38	75,38	61,32	-2,63	-2,94	75,2	58,9	-10,67	-7,59
Wolof (WTB)	76,77	69,62	82,31	75,17	-5,54	-5,55	88,5	84,5	-31,34	-22,35
Average	76,83	69,36	81,69	75,26	-4,86	-5,91			-28,95	-26,67
									-26,55	-23,88

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(Average of 3 experiments)	SuPar		SyntacticPointer		Difference		BiAffine reference value		Left-Right reference value	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Coptic (Scriptorium)	88,56	84,16	88,67	84,38	-0,11	-0,22	-	-	-	-0,97
Dutch (Alpino)	89,49	86,03	89,92	86,34	-0,42	-0,31	93,23±0,09	90,67±0,07	93,13±0,07	90,74±0,08
Dutch (LassySmall)	87,96	83,91	88,08	83,67	-0,12	0,24	93,23±0,09	90,67±0,07	93,13±0,07	90,74±0,08
Hebrew (HTB)	89,55	85,95	89,18	85,47	0,36	0,48	90,8	88,6	-	-
Indonesian (GSD)	85,32	78,59	84,52	77,75	0,80	0,85	-	-	-	5,15
Italian (ISDT)	92,25	89,66	92,44	89,89	-0,19	-0,23	94,08±0,04	92,24±0,06	94,28±0,06	92,48±0,02
Norwegian (Bokmaal)	90,80	88,55	91,51	89,27	-0,70	-0,72	95,02±0,05	93,75±0,05	95,23±0,06	93,99±0,07
Norwegian (Nynorsk)	89,61	87,12	90,53	88,06	-0,92	-0,94	95,02±0,05	93,75±0,05	95,23±0,06	93,99±0,07
Old Church Slavonic (PROIEL)	84,42	78,77	82,61	80,25	-1,19	-1,48	-	-	-	-8,24
Polish (PDB)	92,48	87,09	92,17	86,43	0,32	0,66	-	-	-	4,04
Sanskrit (Vedic)	-	-	-	-	-	-	-	-	-	-
Average	89,05	84,98	89,26	85,15	-0,22	-0,17				-2,24
										-2,03

Schluter et al.												
	DepToLabel		SyntacticPointer		Difference		BiAffine reference value		Left-Right reference value		Error reduction (Syn. vs D2L)	
(Average of 3 experiments)	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Coptic (Scriptorium)	83.97	77.03	88.67	84.38	-4.70	-7.35	-	-	-	-	-41.51	-47.06
Dutch (Alpino)	84.41	79.98	89.92	86.34	-5.50	-6.36	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-54.58	-46.56
Dutch (LassySmall)	83.71	78.38	88.08	83.67	-4.37	-5.29	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-36.66	-32.41
Hebrew (HTB)	85.31	80.90	89.18	85.47	-3.87	-4.57	90.8	88.6	-	-	-35.78	-31.46
Indonesian (GSD)	82.26	75.60	84.52	77.75	-2.26	-2.14	-	-	-	-	-14.60	-9.63
Italian (ISDT)	89.80	87.04	92.44	89.89	-2.65	-2.85	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02	-35.02	-28.16
Norwegian (Bokmaal)	87.58	84.50	91.51	89.27	-3.92	-4.77	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-46.19	-44.50
Norwegian (Nynorsk)	84.87	81.02	90.53	88.06	-5.66	-7.04	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-59.82	-58.99
Old Church Slavonic (PROIEL)	79.78	72.50	85.61	80.25	-5.82	-7.75	-	-	-	-	-40.46	-39.26
Polish (PDB)	88.64	84.86	92.17	86.43	-3.53	-1.57	-	-	-	-	-45.06	-11.57
Sanskrit (Vedic)	-	-	-	-	-	-	-	-	-	-	-	-
Average	85.03	80.18	89.26	85.15	-4.23	-4.97					-40.97	-34.96
											-39.39	-33.47

Average	87.43	83.36	87.03	83.08	0.40	0.28			0.94	-0.29
									3.11	1.67

-34.60	-33.54	-1.46	-0.16
-33.73	-32.34	-1.69	-1.69

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	DepToLabel		SyntacticPointer		Difference		BiAffine reference value		Left-Right reference value		Error reduction (Syn. vs D2L)	
(Average of 3 experiments)	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Arabic (PADT)	82.27	76.34	86.70	80.50	-4.42	-4.16	-	-	-	-	-33.25	-21.33
Basque (BDT)	76.85	71.22	82.84	78.36	-5.99	-7.14	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-34.88	-32.97
Chinese (GSD)	73.98	67.51	81.19	76.90	-7.21	-9.39	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-38.36	-40.63
English (EWT)	85.33	81.33	88.50	85.43	-3.18	-4.10	90.8	88.6	-	-	-27.63	-28.11
Finnish (TDT)	82.72	78.08	87.59	84.74	-4.87	-6.66	-	-	-	-	-39.25	-43.67
Hebrew (HTB)	89.55	80.90	89.55	85.95	0.00	-5.05	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02	0.00	-35.92
Hindi (HDTB)	92.22	88.16	94.24	90.86	-2.02	-2.70	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-35.07	-29.54
Italian (ISDT)	89.80	87.04	92.44	89.89	-2.65	-2.85	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-35.02	-28.16
Japanese (GSD)	87.07	83.23	93.02	90.96	-5.95	-7.73	-	-	-	-	-85.29	-85.44
Korean (GSD)	82.17	77.35	85.53	81.02	-3.36	-3.67	-	-	-	-	-23.19	-19.32
Russian (SynTagRus)	90.47	87.99	93.18	91.16	-2.71	-3.17	-	-	-	-	-39.67	-35.91
Swedish (Talbanken)	83.08	78.46	87.37	83.93	-4.29	-5.47	-	-	-	-	-33.97	-34.04
Turkish (IMST)	65.96	56.14	69.19	60.36	-3.23	-4.22	-	-	-	-	-10.50	-10.65
Average	83.19	77.98	87.03	83.08	-3.84	-5.10					-33.54	-34.28
											-29.57	-30.14

Error reduction (D2L. vs Su.)		Error reduction (D2L. vs Syn.)	
UAS	LAS	UAS	LAS
28.77	20.64	24.95	17.58
30.60	29.81	25.86	24.80
26.34	26.53	27.72	28.89
19.35	19.19	21.65	21.94
33.49	30.39	28.19	30.39
0.00	26.43	0.00	26.43
25.58	22.21	25.96	22.80
24.08	20.17	25.94	21.97
35.31	34.68	46.03	46.07
23.85	20.43	18.83	16.19
29.00	26.76	28.40	26.42
27.19	27.07	25.35	25.39
20.05	17.90	9.50	9.62
24.89	24.79	23.72	24.50
25.22	24.44	22.82	23.16

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	SuPar		SyntacticPointer		Difference		BiAffine reference value		Left-Right reference value		Error reduction (Syn. vs. Su.)	
(Average of 3 experiments)	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (PROIEL)	85.51	81.11	85.18	80.73	0.33	0.38	-	-	-	-	2.20	1.97
Arabic (PADT)	87.37	81.22	86.70	80.50	0.68	0.72	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	5.09	3.71
Chinese (GSD)	80.83	76.13	81.19	76.90	-0.36	-0.77	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-1.91	-3.32
English (EWT)	88.17	84.91	88.50	85.43	-0.34	-0.51	90.8	88.6	-	-	-2.93	-3.52
Finnish (TDT)	88.51	84.74	87.59	83.78	0.92	0.96	-	-	-	-	7.39	5.92
Hebrew (HTB)	88.31	85.95	89.18	85.47	-0.87	0.48	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02	-8.07	3.28
Korean (Kaist)	86.80	84.49	86.93	84.60	-0.13	-0.12	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-0.97	-0.76
Russian (SynTagRus)	93.23	91.20	93.18	91.16	0.06	0.04	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	0.83	0.45
Swedish (Talbanken)	87.68	84.29	87.37	83.93	0.31	0.36	-	-	-	-	2.45	2.24
Average	87.38	83.78	87.31	83.61	0.07	0.17					0.45	1.11
											0.52	1.05

Error reduction (Su. vs D2L.)		Error reduction (Su. vs Syn.)	
UAS	LAS	UAS	LAS
-36.42	-33.61	-2.25	-2.01
-40.39	-26.00	-5.36	-3.85
-35.76	-36.11	1.88	3.21
-24.00	-23.75	2.85	3.40
-50.36	-43.67	-7.98	-6.29
-25.63	-35.92	7.47	-3.39
-17.47	-18.65	0.96	0.75
-40.84	-36.53	-0.84	-0.45
-37.34	-37.11	-2.52	-2.29
-34.25	-32.37	-0.64	-1.21
-33.92	-32.26	-0.52	-1.06

Smith et al.												
	DepToLabel		SyntacticPointer		Difference		BiAffine reference value		Left-Right reference value		Error reduction (Syn. vs D2L)	
(Average of 3 experiments)	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Ancient Greek (PROIEL)	80.23	74.76	85.18	80.73	-4.95	-5.97	-	-	-	-	-33.41	-30.98
Arabic (PADT)	82.27	76.34	86.70	80.50	-4.42	-4.16	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-33.25	-21.33
Chinese (GSD)	73.98	67.51	81.19	76.90	-7.21	-9.39	93.23±0.09	90.67±0.07	93.13±0.07	90.74±0.08	-38.36	-40.63
English (EWT)	85.33	81.33	88.50	85.43	-3.18	-4.10	90.8	88.6	-	-	-27.63	-28.11
Finnish (TDT)	82.72	78.08	87.59	83.78	-4.87	-5.70	-	-	-	-	-39.25	-35.16
Hebrew (HTB)	85.31	80.90	89.18	85.47	-3.87	-4.57	94.08±0.04	92.24±0.06	94.28±0.06	92.48±0.02	-35.78	-31.46
Korean (Kaist)	84.49	81.59	86.93	84.60	-2.43	-3.01	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-18.61	-19.55
Russian (SynTagRus)	90.47	87.99	93.18	91.16	-2.71	-3.17	95.02±0.05	93.75±0.05	95.23±0.06	93.99±0.07	-39.67	-35.91
Swedish (Talbanken)	83.08	78.46	87.37	83.93	-4.29	-5.47	-	-	-	-	-33.97	-34.04
Average	83.10	78.55	87.31	83.61	-4.21	-5.06					-33.32	-30.80
											-33.22	-30.87

Error reduction (D2L. vs Su.)		Error reduction (D2L. vs Syn.)	
UAS	LAS	UAS	LAS
26.69	25.16	25.04	23.65
28.77	20.64	24.95	17.58
26.34	26.53	27.72	28.89
19.35	19.19	21.65	21.94
33.49	30.39	28.19	30.39
20.40	26.43	26.35	23.93
14.88	15.72	15.69	16.35
29.00	26.76	28.40	26.42
27.19	27.07	25.35	25.39
25.12	24.21	24.82	23.35
25.33	24.39	24.94	23.59