

Mean Scores: TREC 2008 Legal Track, Ad Hoc Task

(Revised Feb 16/09 to correct the wat2text field list and make the captions and glossary consistent with the overview paper.)

The tables list the mean scores for each of the 64 submitted runs for the Ad Hoc task and the 5 additional reference runs. The following glossary explains the codes used in Tables 1 and 2.

“Fields”: The topic fields used by the run: ‘b’ Boolean query (final negotiated), ‘C’ complaint, ‘d’ defendant Boolean (initial proposal), ‘i’ instructions and definitions, ‘p’ plaintiff Boolean (rejoinder query), ‘o’ other negotiation history (Defendant2, Plaintiff2, etc.), ‘c’ original consensus Boolean (or final Boolean if Consensus1 field was not used), ‘r’ request text, ‘v’ B value, ‘m’ metadata fields were indexed, ‘B’ reference Boolean run was used, ‘M’ manual processing was involved, ‘F’ feedback run (old relevance assessments were used, applicable to RF task only).

“Ret.”: The Average Number of Documents Retrieved per Topic.

“Avg. K”: The Average K value.

“P@K” and “R@K”: Estimated Precision and Recall at Depth K.

“ $F_1@K$ ”: Estimated F_1 at Depth K.

“ $F_1@R$ ”: Estimated F_1 at Depth R (where R is the estimated number of relevant documents).

“S1J”: Success of the First Judged Document.

“P5”: Estimated Precision at Depth 5.

“R@B”: Estimated Recall at Depth B.

“R@ret”: Estimated Recall of the full retrieval set.

“ K_h ”: K value when just counting Highly relevant documents as relevant.

“ R_h ”: Estimated number of Highly relevant documents.

Table 1 counts all relevant documents as relevant (averaged over 26 topics). Table 2 shows the mean scores when just counting highly relevant documents as relevant (averaged over 24 topics).

Parentheses are used for the 2 reference runs (xrefL08C and xrefL08P) which sometimes retrieved more than 100,000 documents for a topic (which was not allowed for participant runs).

For the 4 reference Boolean runs, only measures at the retrieval depth are shown since a specific ordering of Boolean results is not defined.

Run	Fields	Ret.	Avg. K	(P@K, R@K)	F ₁ @K	F ₁ @R	S1J, P5	R@B, R@ret
wat7fuse	br	99999	99999	(0.210, 0.555)	0.220	0.243	19/26, 0.754	0.329 , 0.555
CTFgge10kBr0	bdprBM	100000	100000	(0.218, 0.552)	0.216	0.215	13/26, 0.567	0.292, 0.552
otL08fbe	bmBM	100000	75228	(0.241, 0.409)	0.215	0.246	17/26, 0.654	0.272, 0.451
otL08frw	brmBM	100000	64232	(0.239, 0.380)	0.207	0.220	21/26, 0.769	0.269, 0.461
wat8fuse	brv	99999	40402	(0.324, 0.329)	0.201	0.243	19/26, 0.754	0.329 , 0.555
(xrefL08C)	cmM	93190	93190	(0.244, 0.333)	0.196			0.333
(xrefL08P)	pmM	219606	219606	(0.231, 0.425)	0.191			0.425
otL08fv	bmM	100000	46369	(0.243, 0.345)	0.190	0.186	13/26, 0.485	0.254, 0.447
CTFggeBkBr1	bdprBM	100000	44397	(0.320, 0.292)	0.186	0.220	13/26, 0.567	0.289, 0.552
CTFgge4kBr0	bdprBM	100000	40000	(0.267, 0.336)	0.185	0.215	13/26, 0.567	0.292, 0.552
otL08rv	rmM	100000	52081	(0.242, 0.311)	0.185	0.216	15/26, 0.592	0.268, 0.422
CTFggeBkBr0	bdprBM	100000	44397	(0.309, 0.288)	0.180	0.215	13/26, 0.567	0.292, 0.552
otL08rvl	rmM	100000	81826	(0.190, 0.402)	0.179	0.215	16/26, 0.585	0.278, 0.443
CTFggeRkBr0	bdprBM	100000	40402	(0.308, 0.292)	0.178	0.215	13/26, 0.567	0.292, 0.552
wat6fuse	br	99999	25000	(0.310, 0.282)	0.175	0.243	19/26, 0.754	0.329 , 0.555
wat2text	r	99999	25000	(0.289, 0.234)	0.167	0.231	17/26, 0.615	0.246, 0.445
IowaSL0805b	bdprB	100000	40402	(0.273, 0.294)	0.164	0.228	18/26, 0.700	0.294, 0.559
IowaSL0808b	bdporB	100000	40402	(0.268, 0.288)	0.163	0.214	17/26, 0.692	0.288, 0.518
IowaSL0804b	bdprB	100000	40402	(0.284, 0.289)	0.162	0.221	18/26, 0.723	0.289, 0.551
IowaSL0804	bdpr	100000	40402	(0.274, 0.292)	0.162	0.208	15/26, 0.677	0.292, 0.551
UMDCRC40	bdprmB	40442	40402	(0.282, 0.246)	0.162	0.155	12/26, 0.427	0.246, 0.246
UMDCRP3	bdprmB	41009	40402	(0.278, 0.272)	0.162	0.153	12/26, 0.427	0.272, 0.274
IowaSL0808m2	bdprB	100000	40402	(0.281, 0.293)	0.161	0.222	18/26, 0.715	0.293, 0.553
UMDAURCC40	bdprmB	40442	40402	(0.278, 0.241)	0.161	0.146	10/26, 0.339	0.241, 0.241
IowaSL0808m3	bdporB	100000	40402	(0.277, 0.288)	0.161	0.218	18/26, 0.708	0.288, 0.558
refL08B	bvmBM	40402	40402	(0.280, 0.240)	0.161			0.240, 0.240
otL08fb	bvmBM	40402	40402	(0.280, 0.240)	0.161	0.165	17/26, 0.577	0.240, 0.240
IowaSL0805	bdprB	100000	40402	(0.256, 0.294)	0.160	0.219	15/26, 0.631	0.294, 0.559
UMDAURCP3	bdprmB	41313	40402	(0.274, 0.250)	0.159	0.141	10/26, 0.339	0.250, 0.251
RMITrp2	r	100000	14363	(0.298, 0.185)	0.159	0.217	16/26, 0.581	0.263, 0.447
RMITrp1	r	100000	13876	(0.309, 0.171)	0.158	0.216	16/26, 0.562	0.262, 0.434
wat3nobool	brB	99999	99999	(0.159, 0.352)	0.157	0.174	16/26, 0.523	0.194, 0.352
CTFggeSkBr0	bdprBM	100000	25084	(0.344, 0.211)	0.154	0.215	13/26, 0.567	0.292, 0.552
wat4fuse	br	99999	13842	(0.373, 0.195)	0.154	0.243	19/26, 0.754	0.329 , 0.555
UMDSTD	rm	97539	40332	(0.240, 0.213)	0.151	0.187	17/26, 0.529	0.213, 0.323
CTFrtSkBr0	rB	100000	25832	(0.294, 0.193)	0.135	0.182	13/26, 0.488	0.264, 0.416
SabL08ab1	bdporm	100000	20000	(0.260, 0.243)	0.131	0.233	12/26, 0.585	0.298, 0.512
wat1fuse	br	99999	7419	(0.416, 0.158)	0.130	0.243	19/26, 0.754	0.329 , 0.555
CTFrtSk	r	100000	25832	(0.258, 0.178)	0.128	0.174	13/26, 0.385	0.213, 0.360
uva-xconst	r	100000	16904	(0.271, 0.171)	0.126	0.171	16/26, 0.485	0.204, 0.347
otL08rvlq	rmM	100000	50865	(0.186, 0.253)	0.126	0.160	14/26, 0.415	0.217, 0.352
UIowa08LegA	bm	84969	18153	(0.284, 0.215)	0.125	0.173	9/26, 0.431	0.233, 0.388
SabL08arbn	bdporm	100000	20000	(0.243, 0.242)	0.123	0.208	13/26, 0.577	0.271, 0.524
RMITrp3	r	92550	8043	(0.313, 0.109)	0.113	0.178	13/26, 0.385	0.217, 0.350
IowaSL08Ref	r	100000	40402	(0.177, 0.169)	0.112	0.152	9/26, 0.223	0.169, 0.368
uva-xb	r	100000	17301	(0.261, 0.137)	0.103	0.171	16/26, 0.485	0.204, 0.347
SabL08ar2	rm	100000	20000	(0.224, 0.130)	0.097	0.148	9/26, 0.331	0.208, 0.345
UrsinusBM25b	r	100000	10168	(0.462, 0.090)	0.091	0.187	16/26, 0.581	0.180, 0.314
UIowa08LegE0	r	99988	20000	(0.194, 0.118)	0.087	0.157	4/26, 0.254	0.186, 0.350
RMITbp1	b	98873	4767	(0.293, 0.087)	0.070	0.148	8/26, 0.404	0.215, 0.402
uva-xk	r	100000	7447	(0.265, 0.070)	0.069	0.171	16/26, 0.485	0.204, 0.347
RMITbp3	b	100000	5057	(0.298, 0.085)	0.068	0.158	11/26, 0.469	0.219, 0.418
uvabase	r	100000	5852	(0.304, 0.067)	0.065	0.173	13/26, 0.506	0.203, 0.353
RMITbp2	b	100000	4852	(0.284, 0.083)	0.065	0.137	10/26, 0.396	0.207, 0.377
UrsinusPwrB	r	100000	3292	(0.390, 0.048)	0.055	0.182	7/26, 0.308	0.179, 0.372
wat5fuse	br	99999	1004	(0.529, 0.057)	0.053	0.243	19/26, 0.754	0.329 , 0.555
otL08db	dmM	3180	3180	(0.407, 0.035)	0.050	0.037	16/26, 0.469	0.034, 0.035
xrefL08D	dmM	3180	3180	(0.407, 0.035)	0.050			0.035
UCEDLSIa	r	100000	15225	(0.115, 0.056)	0.046	0.111	4/26, 0.112	0.146, 0.296
UIowa08LegE1	b	8910	6119	(0.180, 0.044)	0.042	0.042	6/26, 0.225	0.066, 0.066
UIowa08LegE2	b	8910	6119	(0.180, 0.044)	0.042	0.042	6/26, 0.225	0.066, 0.066
UrsinusPwrA	r	100000	905	(0.403, 0.021)	0.025	0.168	7/26, 0.310	0.191, 0.375
UrsinusPwrC	r	100000	850	(0.396, 0.020)	0.024	0.167	7/26, 0.310	0.183, 0.374
UrsinusBM25a	r	100000	3157	(0.565 , 0.025)	0.021	0.153	16/26, 0.500	0.152, 0.345
UCEDLSIb	r	100000	1535	(0.139, 0.013)	0.009	0.094	2/26, 0.065	0.123, 0.242
UIowa08Leg3	bm	65376	13077	(0.044, 0.004)	0.008	0.032	1/26, 0.039	0.020, 0.037
UrsinusVa	r	100000	802	(0.050, 0.007)	0.005	0.069	4/26, 0.067	0.073, 0.202
randomL08		100000	20000	(0.013, 0.001)	0.002	0.010	1/26, 0.023	0.008, 0.010
UIowa08LegE4	bm	7692	1539	(0.000, 0.000)	0.000	0.000	0/26, 0.000	0.000, 0.000

Table 1: Mean scores for submitted Ad Hoc task runs, using All Relevant documents.

Run	Fields	Ret.	Avg. K_h	($P@K_h$, $R@K_h$)	$F_1@K_h$	$F_1@R_h$	SLJ, P5	R@B, R@ret
wat6fuse	br	99999	12500	(0.128, 0.400)	0.106	0.160	9/24, 0.342	0.473, 0.663
wat4fuse	br	99999	7123	(0.161, 0.298)	0.106	0.160	9/24, 0.342	0.473, 0.663
wat8fuse	brv	99999	19965	(0.117, 0.324)	0.105	0.160	9/24, 0.342	0.473, 0.663
wat7fuse	br	99999	50000	(0.071, 0.572)	0.100	0.160	9/24, 0.342	0.473, 0.663
wat2text	r	99999	12500	(0.121, 0.319)	0.098	0.132	7/24, 0.275	0.429, 0.619
(xrefL08C)	cmM	97259	97259	(0.074, 0.418)	0.095			0.418
otL08frw	brmBM	100000	21799	(0.100, 0.316)	0.095	0.164	8/24, 0.333	0.385, 0.643
CTFggeRkBr0	bdprBM	100000	39930	(0.080, 0.438)	0.095	0.101	5/24, 0.227	0.438, 0.655
wat1fuse	br	99999	3820	(0.183, 0.223)	0.093	0.160	9/24, 0.342	0.473, 0.663
UMDAURCC40	bdprBM	39970	39930	(0.079, 0.358)	0.092	0.129	3/24, 0.125	0.358, 0.358
UMDCRP3	bdprBM	40530	39930	(0.078, 0.436)	0.092	0.162	2/24, 0.117	0.436, 0.437
UMDCRC40	bdprBM	39970	39930	(0.078, 0.433)	0.092	0.162	2/24, 0.117	0.433, 0.433
otL08fb	bvmBM	39930	39930	(0.078, 0.335)	0.091	0.104	3/24, 0.192	0.335, 0.335
refL08B	bvmBM	39930	39930	(0.078, 0.335)	0.091			0.335, 0.335
UMDAURCP3	bdprBM	40805	39930	(0.078, 0.351)	0.091	0.119	3/24, 0.125	0.351, 0.353
(xrefL08P)	pmM	234016	234016	(0.078, 0.568)	0.091			0.568
UMDSTD	rm	97537	39855	(0.066, 0.423)	0.088	0.117	6/24, 0.200	0.423, 0.552
IowaSL0804b	bdprB	100000	19965	(0.100, 0.352)	0.088	0.148	5/24, 0.250	0.407, 0.668
otL08fbe	bmBM	100000	14124	(0.105, 0.267)	0.086	0.117	4/24, 0.267	0.349, 0.531
IowaSL0808b	bdporB	100000	19965	(0.103, 0.348)	0.085	0.141	3/24, 0.233	0.423, 0.641
SabL08ab1	bdporm	100000	10000	(0.090, 0.360)	0.084	0.085	1/24, 0.125	0.435, 0.640
CTFggeBkBr1	bdprBM	100000	44745	(0.087, 0.460)	0.082	0.102	5/24, 0.227	0.433, 0.655
CTFgge4kBr0	bdprBM	100000	40000	(0.066, 0.476)	0.082	0.101	5/24, 0.227	0.438, 0.655
IowaSL0808m3	bdporB	100000	19965	(0.097, 0.345)	0.081	0.141	5/24, 0.242	0.402, 0.681
CTFggeSkBr0	bdprBM	100000	25275	(0.095, 0.387)	0.081	0.101	5/24, 0.227	0.438, 0.655
CTFggeBkBr0	bdprBM	100000	44745	(0.085, 0.446)	0.080	0.101	5/24, 0.227	0.438, 0.655
CTFgge10kBr0	bdprBM	100000	100000	(0.050, 0.655)	0.079	0.101	5/24, 0.227	0.438, 0.655
otL08rv	rmM	100000	30039	(0.100, 0.372)	0.079	0.165	10/24 , 0.300	0.500, 0.696
IowaSL0808m2	bdprB	100000	19965	(0.094, 0.344)	0.079	0.148	6/24, 0.250	0.409, 0.678
IowaSL0805b	bdprB	100000	19965	(0.093, 0.345)	0.079	0.146	5/24, 0.250	0.411, 0.679
wat3nobool	brB	99999	50000	(0.056, 0.309)	0.077	0.084	2/24, 0.183	0.218, 0.340
IowaSL0805	bdprB	100000	19965	(0.082, 0.332)	0.075	0.111	4/24, 0.192	0.415, 0.679
uva-xconst	r	100000	8452	(0.097, 0.293)	0.073	0.147	8/24, 0.250	0.458, 0.567
CTFrtSkBr0	rB	100000	26440	(0.082, 0.370)	0.072	0.111	5/24, 0.160	0.373, 0.553
IowaSL0804	bdpr	100000	19965	(0.078, 0.347)	0.071	0.117	4/24, 0.200	0.409, 0.668
Ulowa08Lega	bm	88741	9841	(0.094, 0.262)	0.069	0.065	2/24, 0.142	0.358, 0.486
uva-xb	r	100000	8549	(0.094, 0.230)	0.066	0.147	8/24, 0.250	0.458, 0.567
SabL08arbn	bdporm	100000	10000	(0.081, 0.340)	0.066	0.072	1/24, 0.125	0.452, 0.680
otL08rvl	rmM	100000	43531	(0.059, 0.441)	0.065	0.150	7/24, 0.325	0.464, 0.645
otL08fv	bmM	100000	15389	(0.076, 0.316)	0.064	0.086	3/24, 0.108	0.354, 0.519
RMITrp1	r	100000	604	(0.298, 0.063)	0.064	0.177	7/24, 0.242	0.443, 0.644
RMITrp2	r	100000	647	(0.300 , 0.063)	0.063	0.164	7/24, 0.271	0.441, 0.616
otL08db	dmM	3445	3445	(0.143, 0.062)	0.063	0.057	7/24, 0.192	0.062, 0.062
xrefL08D	dmM	3445	3445	(0.143, 0.062)	0.063			0.062
uva-xk	r	100000	5838	(0.117, 0.246)	0.060	0.147	8/24, 0.250	0.458, 0.567
UrsinusBM25b	r	100000	5668	(0.190, 0.160)	0.060	0.136	8/24, 0.267	0.407, 0.604
uvabase	r	100000	4542	(0.101, 0.239)	0.052	0.130	8/24, 0.263	0.454, 0.552
UrsinusPwrB	r	100000	678	(0.151, 0.085)	0.049	0.115	3/24, 0.142	0.271, 0.509
CTFrtSk	r	100000	26440	(0.043, 0.348)	0.048	0.084	4/24, 0.100	0.362, 0.531
SabL08ar2	rm	100000	10000	(0.054, 0.224)	0.048	0.076	2/24, 0.175	0.304, 0.463
UrsinusBM25a	r	100000	1571	(0.220, 0.073)	0.045	0.110	8/24, 0.192	0.345, 0.525
IowaSL08Ref	r	100000	19965	(0.049, 0.259)	0.041	0.093	5/24, 0.083	0.309, 0.504
Ulowa08LegE0	r	99987	10000	(0.053, 0.237)	0.041	0.087	1/24, 0.100	0.314, 0.463
UCEDLSIa	r	100000	7113	(0.057, 0.087)	0.034	0.042	0/24, 0.000	0.202, 0.380
wat5fuse	br	99999	521	(0.225, 0.132)	0.034	0.160	9/24, 0.342	0.473, 0.663
otL08rvlq	rmM	100000	8891	(0.063, 0.242)	0.033	0.108	6/24, 0.133	0.299, 0.541
RMITrp3	r	92819	243	(0.235, 0.055)	0.028	0.119	4/24, 0.217	0.351, 0.553
UrsinusPwrA	r	100000	231	(0.125, 0.067)	0.026	0.106	3/24, 0.148	0.274, 0.518
UrsinusPwrC	r	100000	175	(0.124, 0.067)	0.025	0.105	3/24, 0.148	0.273, 0.518
RMITbp2	b	100000	212	(0.118, 0.089)	0.022	0.059	3/24, 0.075	0.256, 0.532
Ulowa08LegE2	b	9568	4219	(0.036, 0.039)	0.020	0.022	1/24, 0.058	0.088, 0.088
Ulowa08LegE1	b	9568	4219	(0.036, 0.039)	0.020	0.022	1/24, 0.058	0.088, 0.088
RMITbp1	b	98779	212	(0.107, 0.088)	0.018	0.060	3/24, 0.075	0.263, 0.536
RMITbp3	b	100000	143	(0.102, 0.085)	0.012	0.064	5/24, 0.125	0.324, 0.612
UrsinusVa	r	100000	491	(0.019, 0.001)	0.001	0.030	0/24, 0.000	0.090, 0.270
UCEDLSIb	r	100000	293	(0.011, 0.000)	0.000	0.043	0/24, 0.000	0.163, 0.340
Ulowa08Leg3	bm	70824	7084	(0.001, 0.000)	0.000	0.001	0/24, 0.008	0.001, 0.008
Ulowa08LegE4	bm	8333	834	(0.000, 0.000)	0.000	0.000	0/24, 0.000	0.000, 0.000
randomL08		100000	10000	(0.000, 0.000)	0.000	0.007	0/24, 0.000	0.008, 0.008

Table 2: Mean scores for submitted Ad Hoc task runs, using only Highly Relevant documents.