	_				δ.			8				RG 2009				FGR 2015				POM 2017 h qc				POM 2017 h _{uniq}				M+L 2018			
#	161	% Obs	101	δ _{HC} Time Acc % S in G Acc/S				δ_{HCU} Time Acc % S in G Acc/S			Time	Time Acc % S in G Acc/S			Time	Time Acc % S in G Acc/S						A oo/S	S Time Acc % S in G Acc/S				Time				
#	9	10	0.0	4.079	95.5%	7.81	12.2	3.86	95.9%	8.7	11.0	1.22	86.8%	7.84	11.1	46,563	65.9%	9.11	7.2	0.144	39.9%	1.05	37.8	0.131	31.7%	1.04	30.6	0.0	Acc %	0.0	0.0
00CKS	0.0	30	0.0	4.079	93.3% 89.4%	2.79	32.0	4.112	93.9%	5.16	18.3	1.639	87.2%	3.57	24.5	36.649	78.0%	10.53	7.4	0.144	50.6%	1.03	46.3	0.131	51.4%	1.04	48.4	0.0	0.0%	0.0	0.0
		50		4.118	92.7%	1.78	52.2	4.114	93.9%	3.28	28.7	2.402	97.9%	2.63	37.2	34.291	81.3%	10.55	7.6	0.179	65.0%	1.09	59.6	0.144	60.1%	1.08	55.5	0.0	0.0%	0.0	0.0
30		70	0.0	4.117	98.8%	1.41	70.2	4.116	98.8%	1.84	53.6	3.785	97.5%	1.83	53.3	37.057	89.8%	8.63	10.4	0.179	84.8%	1.12	75.5	0.108	79.0%	1.14	69.3	0.0	0.0%	0.0	0.0
m		100	0.0	4.07	100.0%	1.21	82.9	4.07	100.0%	1.21	82.9	6.791	100.0%	1.46	68.4	40,405	100.0%	1.23	81.4		100.0%	1.36	73.4	0.134	100.0%	1.09	91.7	0.0	0.0%	0.0	0.0
\vdash	_	100	0.0	3.334	61.9%	2.15	28.7	3.346	71.4%	3.51	20.3	1.496	77.4%	3.99	19.4	0.0	0.0%	0.0	0.0	0.369	35.7%	1.18	30.3	0.393	32.1%	1.1	29.3	0.0	0.0%	0.0	0.0
90		30	0.0	3.286	71.4%	1.4	50.8	3.315	88.1%	4.18	21.1	2.309	77.4%	2.39	32.3	0.0	0.0%	0.0	0.0	0.357	58.3%	1.06	55.1	0.393	47.6%	1.07	44.4	0.0	0.0%	0.0	0.0
(0)	0.0	50	0.0	3.282	92.9%	1.38	67.2	3.302	98.8%	3.65	27.0	3.411	84.5%	1.92	44.1	0.0	0.0%	0.0	0.0	0.369	76.2%	1.06	71.9	0.405	71.4%	1.02	69.8	0.0	0.0%	0.0	0.0
H ()		70		3.289	97.6%	1.06	92.1	3.24	98.8%	1.75	56.5	5.27	91.7%	1.68	54.6	0.0	0.0%	0.0	0.0	0.393	89.3%	1.01	88.2	0.44	84.5%	1.01	83.5	0.0	0.0%	0.0	0.0
_		100			100.0%	1.0	100.0	3.27	100.0%	1.0	100.0	7.117	92.9%	1.46	63.4	0.0	0.0%	0.0	0.0	0.464	100.0%	1.04	96.6	0.5	100.0%	1.04	96.6	0.0	0.0%	0.0	0.0
O) (0)		10	0.0	1.972	77.4%	2.61	29.7	1.945	78.6%	3.17	24.8	1.169	96.4%	4.71	20.5	79.488	42.9%	1.92	22.4	0.333	41.7%	1.04	40.2	0.321	35.7%	1.11	32.3	0.0	0.0%	0.0	0.0
		30	0.0	1.991	83.3%	1.69	49.3	1.958	92.9%	2.79	33.3	1.411	92.9%	3.35	27.8	60.168	70.2%	3.19	22.0	0.31	54.8%	1.13	48.4	0.31	47.6%	1.1	43.5	0.0	0.0%	0.0	0.0
	0.0	50	0.0	1.998	92.9%	1.23	75.7	1.962	97.6%	2.04	48.0	1.694	94.0%	2.88	32.6	64.427	79.8%	4.6	17.4	0.321	72.6%	1.17	62.2	0.31	64.3%	1.14	56.2	0.0	0.0%	0.0	0.0
≥		70	0.0	1.99	95.2%	1.14	83.3	1.948	95.2%	1.5	63.5	1.973	89.3%	2.46	36.2	75.085	82.1%	4.11	20.0	0.333	90.5%	1.14	79.2	0.321	90.5%	1.17	77.6	0.0	0.0%	0.0	0.0
ŭ		100	0.0	1.982	100.0%	1.04	96.6	1.977	100.0%	1.04	96.6	2.821	89.3%	2.14	41.7	96.091	96.4%	1.11	87.1	0.321	100.0%	1.21	82.4	0.321	100.0%	1.18	84.8	0.0	0.0%	0.0	0.0
DWR (0)		10		2.191	54.8%	2.21	24.7	2.19	95.2%	5.46	17.4	1.767	83.3%	4.21	19.8	66.496	92.9%	6.38	14.6	0.452	36.9%	1.1	33.7	0.512	33.3%	1.06	31.5	0.0	0.0%	0.0	0.0
		30		2.177	83.3%	1.58	52.6	2.179	100.0%	5.0	20.0	2.723	81.0%	3.35	24.2	54.461	97.6%	6.56	14.9	0.452	60.7%	1.04	58.6	0.5	51.2%	1.06	48.3	0.0	0.0%	0.0	0.0
	0.0	50		2.169	90.5%	1.21	74.5	2.165	100.0%	3.98	25.1	4.822	72.6%	2.27	31.9	56.256	98.8%	6.27	15.7	0.488	66.7%	1.0	66.7	0.548	61.9%	1.01	61.2	0.0	0.0%	0.0	0.0
-		70		2.158	97.6%	1.07	91.1		100.0%	2.26	44.2	10.914	70.2%	2.05	34.3	65.101	98.8%	6.0	16.5	0.536	89.3%	1.0	89.3	0.607	78.6%	1.05	75.0	0.0	0.0%	0.0	0.0
		100			100.0%	1.0	100.0		100.0%	1.0	100.0	25.092	67.9%	1.68	40.4	86.46	100.0%	1.0	100.0		100.0%	1.0	100.0	0.75	96.4%	1.04	93.1	0.0	0.0%	0.0	0.0
IPC-GRID (0)		10	0.0	2.256	92.8%	1.92	48.3	2.258	94.8%	2.33	40.7	1.091	96.1%	2.46	39.1	0.0	0.0%	0.0	0.0	0.248	66.7%	2.58	25.9	0.242	62.7%	2.58	24.4	0.758	58.2%	2.11	27.6
		30	0.0	2.251	95.4%	1.29	73.7	2.254	98.0%	1.58	62.0	1.476	97.4%	1.42	68.3	0.0	0.0%	0.0	0.0	0.242	81.7%	1.65	49.6	0.242	83.7%	1.66	50.4	0.699	80.4%	1.62	49.6
	0.0	50		2.255	98.7% 99.4%	1.11	88.8 89.9	2.252	100.0% 100.0%	1.26	79.3	1.905	100.0% 100.0%	1.16	86.4	0.0	0.0%	0.0	0.0	0.261	90.8% 97.4%	1.18	76.8 90.9	0.248	90.8% 97.4%	1.18	76.8 90.9	0.667	93.5% 91.5%	1.21	77.3
		70 100		2.082	100.0%	1.03	96.8	2.208	100.0%	1.19	84.1 96.8	2.552 4.057	100.0%	1.05	95.0 100.0	0.0	0.0%	0.0	0.0	0.268	100.0%	1.07	100.0		100.0%	1.07	100.0	0.673	91.5% 83.6%	1.08	84.3 76.1
HERRY (0)		100	0.0	1.411	100.0%	3.17	31.6	1.412	100.0%	3.2	31.2	0.491	98.8%	3.37	29.3	6.66	91.7%	6,65	13.8	0.202	58.3%	1.26	46.2	0.202	58.3%	1.18	49.5	4.548	51.2%	1.35	38.1
		30	0.0		100.0%	1.56	64.1		100.0%	1.76	56.8	0.491	100.0%	1.76	56.8	6.801	100.0%	7.57	13.8	0.071	38.3% 85.7%	1.12	76.6	0.071	83.3%	1.18	78.7	4.348	73.8%	1.13	65.3
	0.0	50	0.0		100.0%	1.29	77.8		100.0%	1.44	69.4	0.795	100.0%	1.42	70.6	8.297	100.0%	7.57	13.2	0.06	95.2%	1.07	88.9	0.06	91.7%	1.00	90.6	4.393	81.0%	1.12	72.3
	0.0	70	0.0		100.0%	1.1	91.3		100.0%	1.12	89.4	1.253	98.8%	1.14	86.5	10.65	100.0%	7.32	13.7		100.0%	1.01	98.8		100.0%	1.0	100.0	4.274	96.4%	1.05	92.0
		100	0.0		100.0%	1.07	93.3		100.0%	1.07	93.3	1.63	100.0%	1.07	93.3	13.625	100.0%	1.07	93.3		100.0%	1.0	100.0		100.0%	1.0	100.0	4.214	100.0%	1.0	100.0
		10	0.0	2.625	100.0%	2.5	39.9	2.619	100.0%	2.8	35.7	1.201	99.3%	2.98	33.3	0.0	0.0%	0.0	0.0	0.641	55.6%	1.73	32.2	0.641	49.0%	1.24	39.5	3.967	51.0%	1.63	31.3
GISTICS (0)		30	0.0	2.614	98.0%	1.3	75.4	2.623	98.0%	1.76	55.8	1.799	98.7%	1.39	70.9	0.0	0.0%	0.0	0.0	0.621	80.4%	1.21	66.5	0.634	76.5%	1.12	68.4	3.83	77.8%	1.46	53.4
(O	0.0	50	0.0	2.591	98.7%	1.13	87.3	2.609	98.7%	1.37	71.9	2.509	98.7%	1.29	76.3	0.0	0.0%	0.0	0.0	0.641	90.2%	1.1	81.7	0.647	86.3%	1.05	82.0	5.085	88.9%	1.32	67.3
D G		70	0.0	2.612	100.0%	1.08	92.7	2.611	100.0%	1.15	86.9	3.461	100.0%	1.13	88.4	0.0	0.0%	0.0	0.0	0.667	96.7%	1.06	91.4	0.66	96.7%	1.02	94.9	3.739	95.4%	1.3	73.4
2		100	0.0	2.456	100.0%	1.0	100.0	2.447	100.0%	1.0	100.0	4.832	100.0%	1.0	100.0	0.0	0.0%	0.0	0.0	0.607	100.0%	1.0	100.0	0.607	100.0%	1.0	100.0	3.213	100.0%	1.1	91.0
		10	0.0	2.026	100.0%	2.12	47.2	2.046	100.0%	2.29	43.8	0.813	100.0%	3.26	30.7	0.0	0.0%	0.0	0.0	0.464	67.9%	1.33	50.9	0.352	54.8%	1.26	43.4	9.548	58.3%	1.54	38.0
Sic		30			100.0%	1.19	84.0		100.0%	1.46	68.3	1.191	100.0%	1.58	63.2	0.0	0.0%	0.0	0.0	0.452	96.4%	1.11	87.1	0.364	90.5%	1.08	83.5	9.286	77.4%	1.26	61.3
0.0 (G) NICONIE	0.0	50			100.0%	1.1	91.3		100.0%	1.32	75.7	1.722	100.0%	1.29	77.8	0.0	0.0%	0.0	0.0	0.452	96.4%	1.01	95.3	0.352	96.4%	1.0	96.4	9.238	88.1%	1.21	72.5
		70			100.0%	1.01	98.8		100.0%	1.02	97.7	2.59	100.0%	1.04	96.6	0.0	0.0%	0.0	0.0		100.0%	1.01	98.8		100.0%	1.01	98.8	9.167	96.4%	1.12	86.2
		100			100.0%	1.0	100.0	2.039	100.0%	1.0	100.0	5.107	100.0%	1.0	100.0	0.0	0.0%	0.0	0.0		100.0%	1.0	100.0	0.364	100.0%	1.0	100.0	9.036	100.0%	1.0	100.0
ROVERS (0)	Ţ	10	0.0	1.969	98.8%	2.71	36.4	1.963	100.0%	2.94	34.0	0.745	98.8%	2.86	34.6	0.0	0.0%	0.0	0.0	0.348	64.3%	1.73	37.2	0.371	51.2%	1.11	46.2	20.893	65.5%	1.85	35.5
		30	0.0	1.975	85.7%	1.17	73.5	1.949	91.7%	1.83	50.0	1.03	100.0%	1.67	60.0	0.0	0.0%	0.0	0.0	0.348	83.3%	1.24	67.3	0.348	69.0%	1.07	64.4	22.714	81.0%	1.42	57.1
80	0.0	50	0.0	1.976	98.8%	1.14	86.5	1.95	98.8%	1.44	68.6	1.345	100.0%	1.3	77.1	0.0	0.0%	0.0	0.0	0.336	92.9%	1.08	85.7	0.348	85.7%	1.01	84.7	17.119	90.5%	1.13	80.0
ž		70	0.0	1.975	98.8%	1.01	97.6	1.961	98.8%	1.06	93.3	1.177	100.0%	1.07	93.3	0.0	0.0%	0.0	0.0	0.348	98.8%	1.01	97.6	0.36	91.7%	1.0	91.7	17.095	98.8%	1.07	92.2
		100	0.0		100.0%	1.0	100.0		100.0%	2.92	100.0	2.298	100.0%	1.07	93.3	0.0	0.0%	0.0 4.87	0.0		100.0%	1.0	100.0		100.0%	1.0	100.0	16.571	100.0%	1.04	96.6
2		10	0.0	2.015	91.7%	2.73	33.6	2.011 1.992	92.9%		31.8	1.076	97.6%	3.42	28.6 40.6	14.82	89.3% 86.9%		18.3	0.45	57.1%	1.56	36.6	0.45	47.6%	1.21	39.2	2.226	69.0%	2.05	33.7
(O)	0.0	30 50	0.0	2.01	92.9% 96.4%	1.76 1.32	52.7 73.0	2.013	96.4% 98.8%	2.31 1.77	41.8 55.7	1.183 1.328	97.6% 97.6%	2.4 1.69	40.6 57.7	32.171 51.567	86.9% 88.1%	4.21 3.65	20.6 24.1	0.45	76.2% 85.7%	1.31	58.2 78.3	0.414	69.0% 81.0%	1.14	60.4 73.1	2.024 1.905	83.3% 92.9%	1.42	58.8 72.9
E 9	0.0	70		2.022	96.4%	1.11	88.2	2.013	98.8% 97.6%	1.77	80.4	1.328	96.4%	1.52	63.3	75,363	92.9%	2.89	32.1	0.426	97.6%	1.02	78.3 95.3	0.414	94.0%	1.04	90.8	1.893	92.9%	1.06	93.3
SA		100		2.000	100.0%	1.07	93.3	2.003	100.0%	1.07	93.3	2.045	96.4%	1.32	73.0	113.381	100.0%	2.57	38.9		100.0%	1.02	93.3		100.0%	1.04	93.3	1.786	100.0%	1.04	96.6
SOKOBAN (0)		100	0.0	3.484	72.6%	1.61	45.2	3.498	78.6%	2.39	32.8	3.153	69.0%	4.02	17.2	461.701	67.9%	2.99	22.7	0.607	53.6%	2.06	26.0	0.607	51.2%	1.86	27.6	0.0	0.0%	0.0	0.0
		30	0.0	3.381	89.3%	1.11	80.7	3.416	95.2%	1.75	54.4	4.622	89.3%	4.17	21.4	370.413	83.3%	3.14	26.5	0.595	57.1%	1.37	41.7	0.607	56.0%	1.21	46.1	0.0	0.0%	0.0	0.0
	0.0	50	0.0	3.33	95.2%	1.08	87.9		100.0%	1.48	67.7	7.441	89.3%	4.11	21.7	358.028	82.1%	2.27	36.1	0.595	71.4%	1.32	54.1	0.607	69.0%	1.2	57.4	0.0	0.0%	0.0	0.0
	0.0	70	0.0	3.308	97.6%	1.04	94.3	3.279	98.8%	1.19	83.0	9.877	89.3%	4.18	21.4	353.721	85.7%	1.85	46.5	0.607	83.3%	1.05	79.5	0.607	86.9%	1.08	80.2	0.0	0.0%	0.0	0.0
		100		3.324	100.0%	1.0	100.0		100.0%	1.0	100.0	12.996	89.3%	4.54	19.7	353.182	85.7%	1.04	82.8	0.607	100.0%	1.0	100.0		100.0%	1.0	100.0	0.0	0.0%	0.0	0.0
		10		2.962	86.9%	2.71	32.0	2.897	88.1%	3.12	28.2	1.814	96.4%	3.4	28.3	93.918	66.7%	1.63	40.9	0.567	39.3%	1.11	35.5	0.555	36.9%	1.05	35.2	13.119	41.7%	1.24	33.7
ZENO (0)	0.0	30		2.959	90.5%	1.61	56.3	2.887	96.4%	2.56	37.7	2.539	88.1%	2.12	41.6	88.285	78.6%	2.27	34.6	0.555	70.2%	1.15	60.8	0.531	60.7%	1.02	59.3	12.881	76.2%	1.31	58.2
		50		2.979	95.2%	1.15	82.5	2.894	96.4%	1.83	52.6	3.079	92.9%	1.42	65.5	105.814	91.7%	2.56	35.8	0.543	78.6%	1.07	73.3	0.555	76.2%	1.0	76.2	12.5	83.3%	1.07	77.8
		70	0.0	3.004	100.0%	1.0	100.0	2.929	100.0%	1.04	96.6	3.907	96.4%	1.13	85.3	125.653	94.0%	2.58	36.4	0.567	97.6%	1.05	93.2	0.555	90.5%	1.0	90.5	12.417	96.4%	1.02	94.2
		100			100.0%	1.0	100.0		100.0%	1.0	100.0	4.866	100.0%	1.07	93.3	168.675	100.0%	1.0	100.0		100.0%	1.0	100.0		100.0%	1.0	100.0	12.321	100.0%	1.0	100.0
Average				2.511	94.11%	1.55	72.53	2.497	96.96%	2.14	60.55	3.322	93.38%	2.30	53.62	61.862	50.98%	2.52	19.80	0.397	79.66%	1.18	71.11	0.400	75.87%	1.12	70.12	4.312	48.67%	0.74	40.63

Table 1: Results comparing the state-of-the-art in goal recognition as planning for partial and full observability.