

Restaurant	Cuisine	Rating	Phone
amour_bistro	french	5	ab_phone
le_cirque	french	3	lc_phone

Dialog Turn	Speaker	Utterance / KB Tuple
1	usr	hi
1	sys	hello
2	usr	can you book a table for six with french food

(a) Example KB and dialog history

m1	m2	m3	m4	m5		m15	m16	m17
amour_bistro r_phone ab_phone	5 r_rating amour_bistro	le_cirque r_phone lc_phone	3 r_rating le_cirque	t1 \$u hi	...	t2 \$u french	t2 \$u food	sentinel

(b) Mem2Seq memory layout

m1	amour_bistro		r_phone		ab_phone	
m2	amour_bistro		r_rating		5	
m3	le_cirque		r_phone		lc_phone	
m4	le_cirque		r_rating		3	
m5	hi		\$u		t1	
m6	hello		\$s		t1	
m7	can	...	french	food	\$u	t2

(c) BoSsNet memory layout