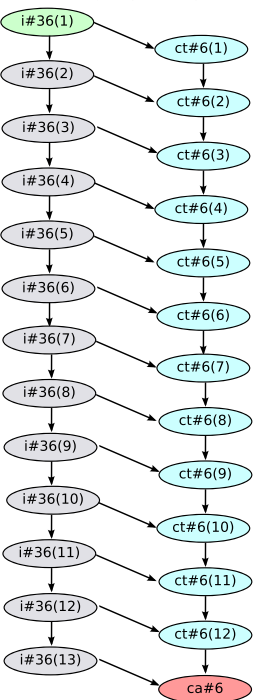


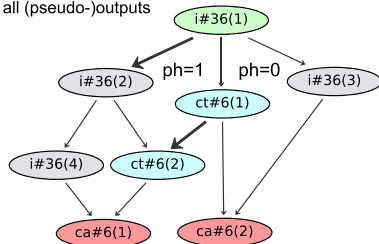
A Asynchronous Hierarchical Transition Graph from the null state, with **egf=tnfa=1**, reducing all (pseudo)-outputs



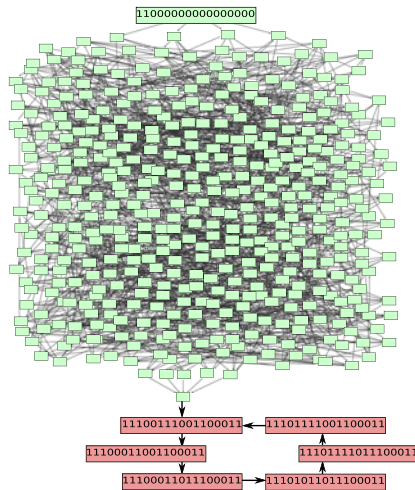
B Asynchronous Hierarchical Transition Graph with a **lowest priority to ikk**, starting from the null state, with **egf=tnfa=1**, reducing all (pseudo)-outputs



C Asynchronous Hierarchical Transition Graph, starting from the null state but **erk=1**, with **egf=0** and **tnfa=1**, reducing all (pseudo)-outputs



Corresponding State Transition Graph



D Stable states for the wild-type

egf	tnfa	akt	ap1	ask1	cjun	egr	erk	ex	gsk3	ikb	ikk	jnk	map3ka	map3k7	mek	mkk4	mkk7	nfkb	nik	p38	ph	pi3k	raf1	ras	sos	tnfr	traf2
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0

Stable states for the Ikk knock-out

egf	tnfa	akt	ap1	ask1	cjun	egr	erk	ex	gsk3	ikb	ikk	jnk	map3ka	map3k7	mek	mkk4	mkk7	nfkb	nik	p38	ph	pi3k	raf1	ras	sos	tnfr	traf2	
0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	1	0	1	1	1	0	0	0	1	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	1	1
1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
1	1	1	1	1	1	1	0	0	0	1	0	1	0	1	0	0	1	0	1	0	1	1	0	0	0	0	1	1

Stable states for the ERK ectopic expression

egf	tnfa	akt	ap1	ask1	cjun	egr	erk	ex	gsk3	ikb	ikk	jnk	map3ka	map3k7	mek	mkk4	mkk7	nfkb	nik	p38	ph	pi3k	raf1	ras	sos	tnfr	traf2
0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	1	0	1	0	1	1	0	0	0	0	0