Continuous Compilation for Aggressive and Adaptive Code Transformation

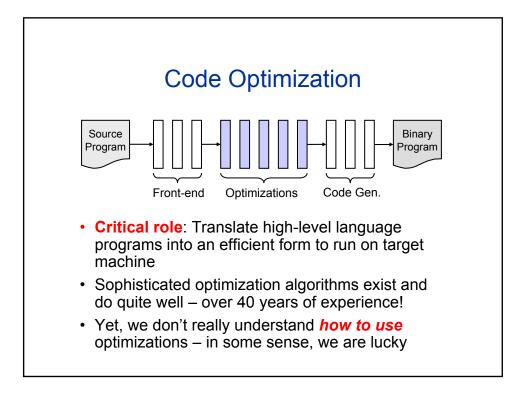


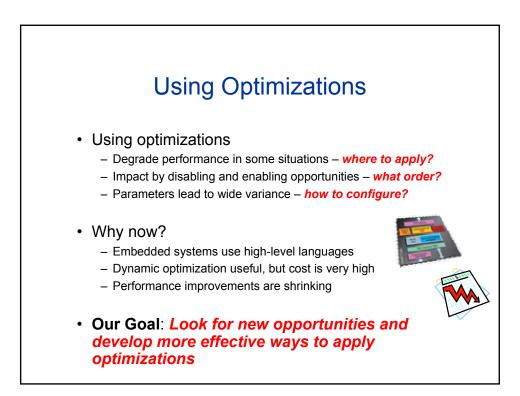
Bruce R. Childers

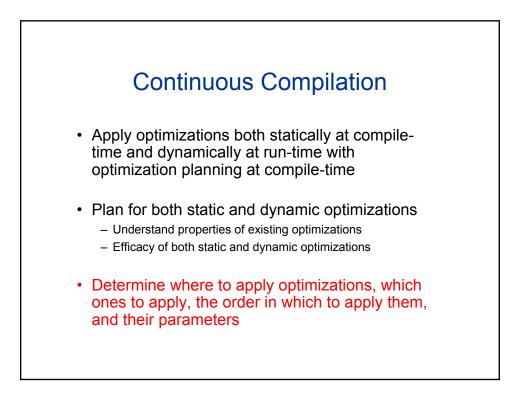
University of Pittsburgh Pittsburgh, Pennsylvania, USA <u>childers@cs.pitt.edu</u> http://www.cs.pitt.edu/coco

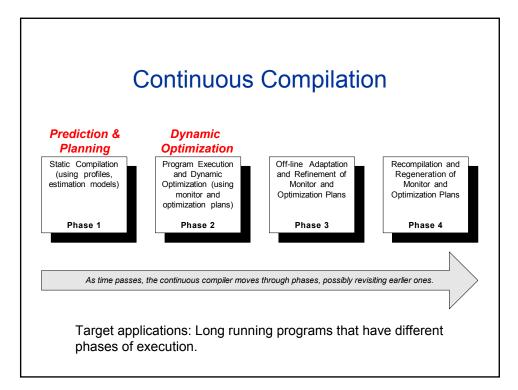
Today's talk is based on: Min Zhao's Ph.D. thesis, co-advised with Mary Lou Soffa

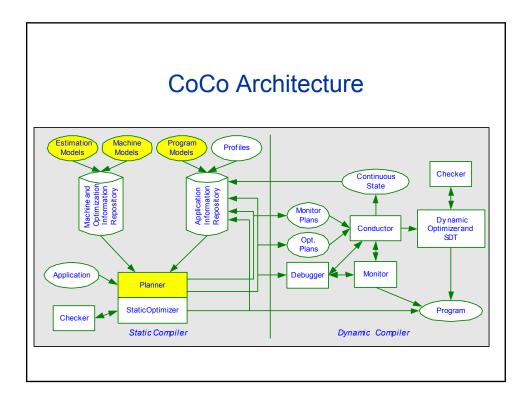
Sponsored by Next Generation Software, National Science Foundation

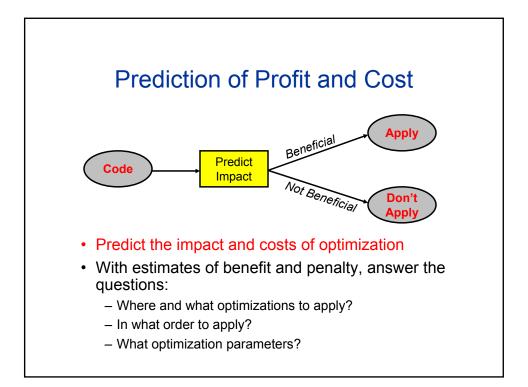


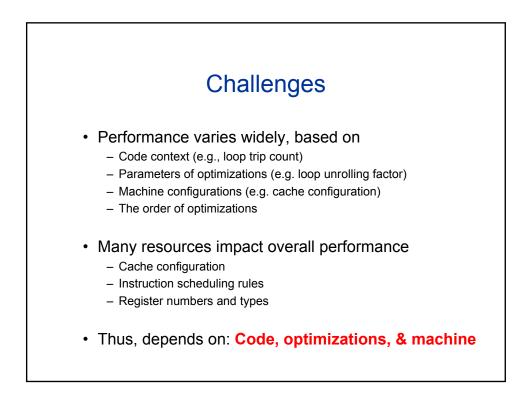


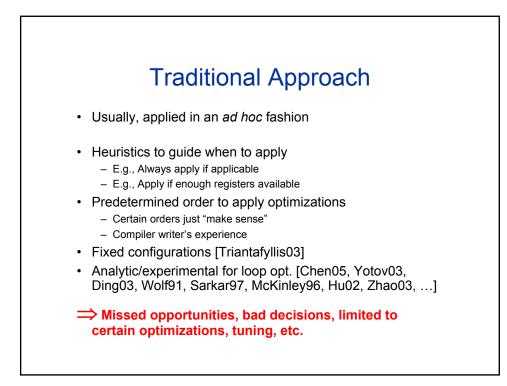




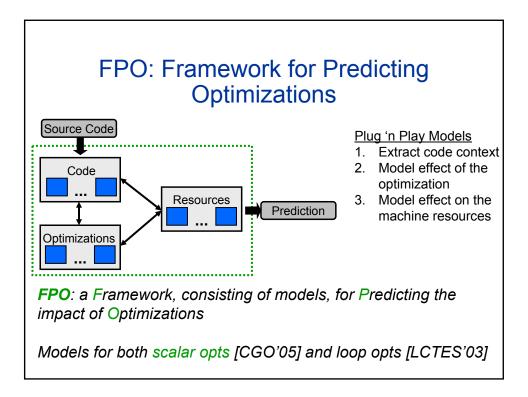


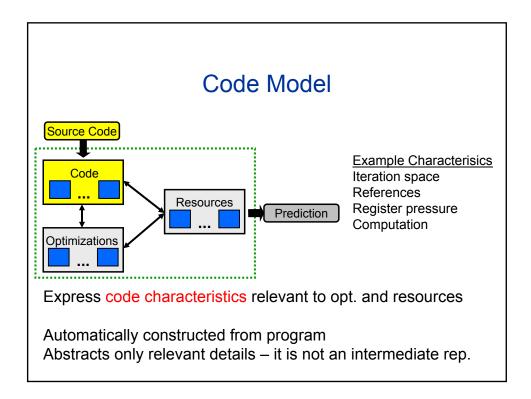


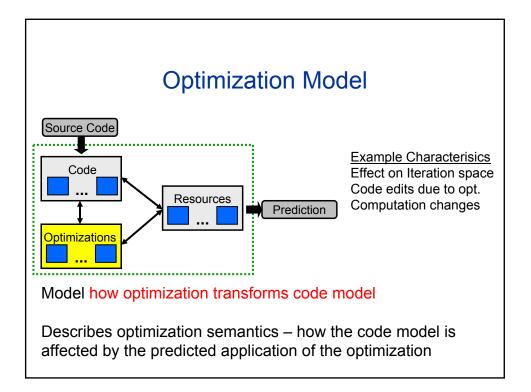


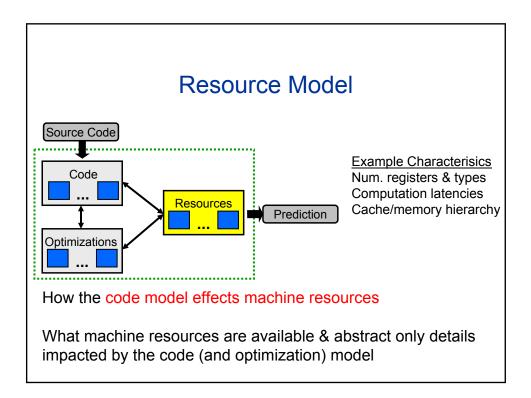


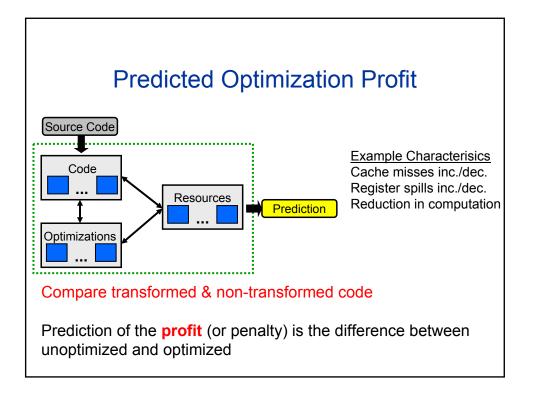


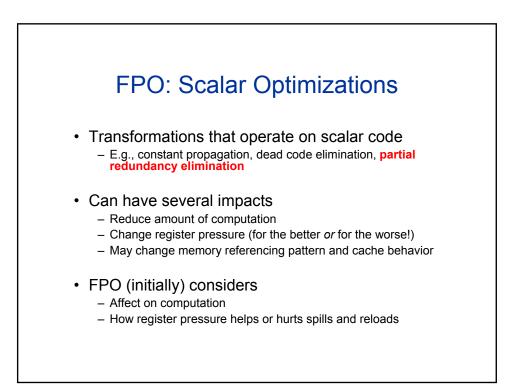


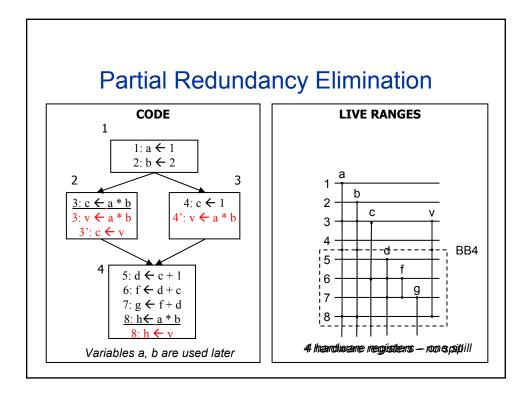


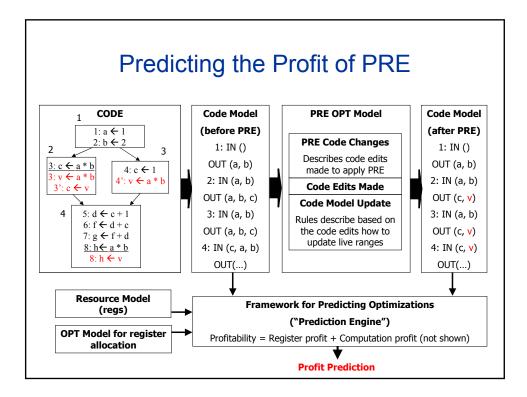


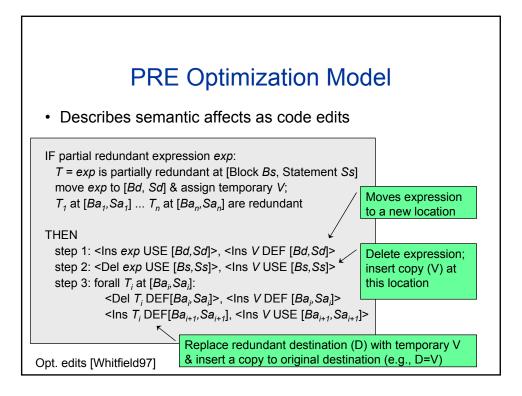


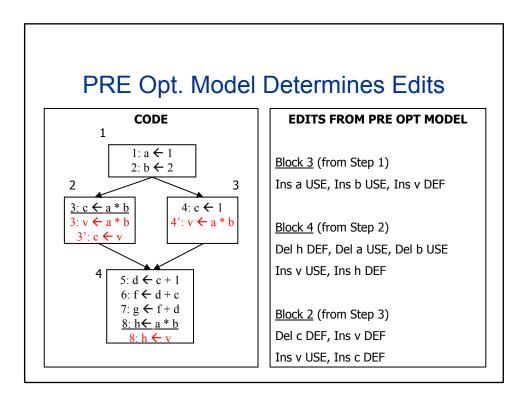


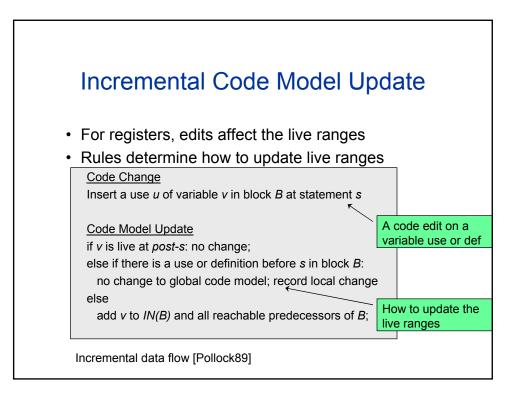


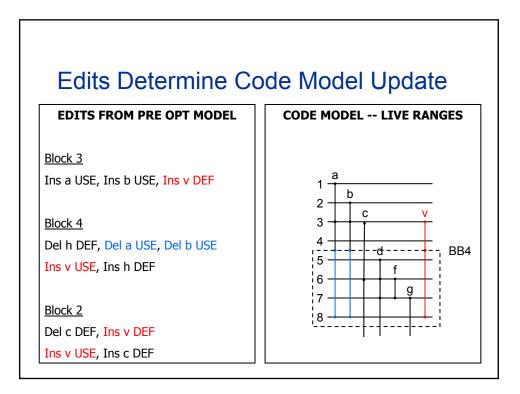


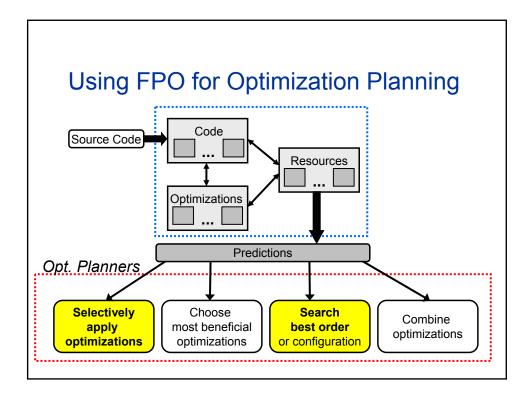


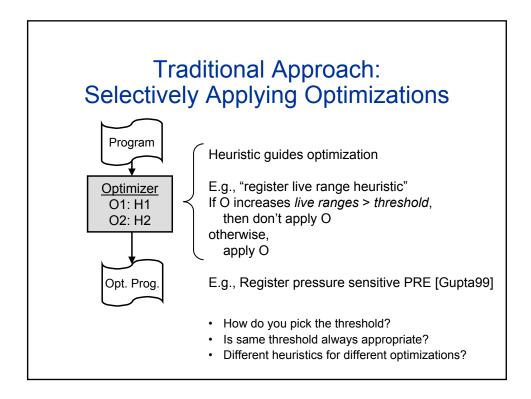


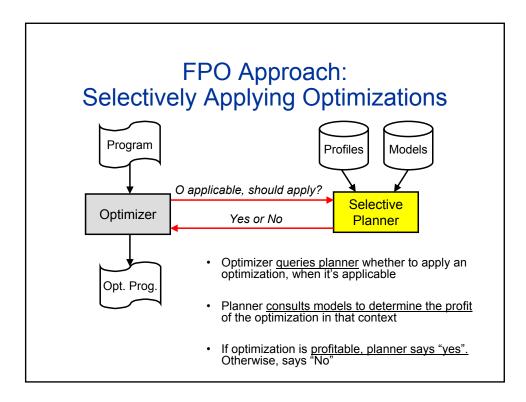


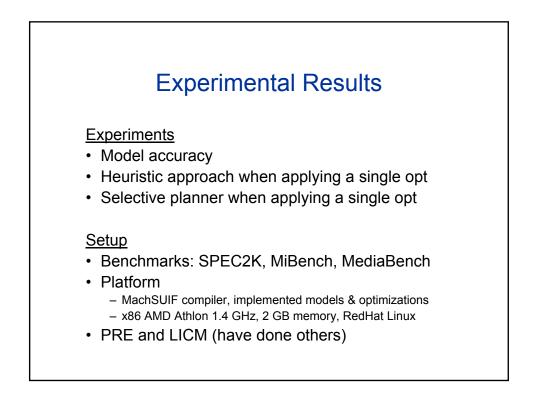












				17.0	ccura	JOy	
		Р	RE	LICM			
Benchmark	ТР	СР	%Accacy	ТР	СР	%Accacy	
gzip	48	43	89.58	45	38	84.44	
vpr	303	291	96.04	230	217	94.35	
mcf	51	44	86.27	52	43	82.69	
parser	293	210	87.87	75	68	90.67	
vortex	530	431	81.13	346	303	87.57	
bzip2	56	44	78.57	88	79	89.77	
twolf	475	433	91.12	345	306	88.70	

F	'RE	άL		witr	не не	uristi	С	
Benchmark	Не	uristic-(driven H	PRE	Heuristic-driven LICM			
	0	4	8	16	0	4	8	16
gzip	3.50	3.75	3.78	4.10	2.90	3.29	5.40	3.27
vpr	1.22	0.75	1.81	1.83	-0.40	-0.38	0.52	0.69
mcf	2.37	2.35	2.31	2.22	2.50	2.62	2.58	2.47
parser	1.25	1.50	1.70	1.35	2.55	2.86	1.99	2.23
vortex	4.73	5.25	4.66	3.86	4.88	5.69	4.99	5.28
bzip2	7.35	7.52	8.19	7.91	7.02	7.35	6.70	4.57
twolf	1.07	0.88	1.14	0.02	0.52	0.38	2.14	1.91

