Table 1: Timings of calculations and communications (in second)

Module name	Calculation time	Communication time with 'Input-interface-IBM'	Communication time with 'EM-all-CM5'	Communication time with 'EM-3D-IBM'
EM-1-SUN	0.1 (Sun)	0.02	0.045	
EM-2-SUN	0.6 (Sun)	0.02	0.5	
EM-3-CM5	1.8 (CM5) 1260 (Sun)	0.02	0.0	
EM-all-CM5	2.1 (CM5) 120 (Sun)			0.5
AVS Rendering Modules	3.5 (550x580 window)			

Note: The timing data is measured at a typical case: the number of pulse functions = 64; the number of mode functions = 5, and the number of grid points = 101x101.