

## CA Mainframe Software Manager (CA MSM) Test Results

CA conducted internal testing to assess how quickly an expert with years of experience installing mainframe products and a novice with no experience installing mainframe products could complete product installs using our new Electronic Software Delivery (ESD) method and CA Mainframe Software Manager (MSM) — one of our most exciting new Mainframe 2.0 deliverables. The table below summarizes the results for ten of our products.

Product Name	ESD Install Expert	CA MSM Install Expert	ESD Install Novice	CA MSM Install Novice
CA 1 <sup>®</sup> Tape Management	36 minutes	9 minutes	3 hours 12 minutes	14 minutes
CA SMF Director	40 minutes	5 minutes	1 hour 10 minutes	6 minutes
CA Auditor for z/OS	26 minutes	7 minutes	2 hours 22 minutes	8 minutes
CA JARS <sup>®</sup> Resource Accounting	37 minutes	5 minutes	1 hour 11 minutes	6 minutes
CA MIM <sup>™</sup> Resource Sharing	30 minutes	5 minutes	1 hour 31 minutes	5 minutes
CA OPS/MVS <sup>®</sup> Event Management and Automation	36 minutes	6 minutes	1 hour 50 minutes	7 minutes
CA Datacom <sup>®</sup>	1 hour 14 minutes	6 minutes	3 hours 8 minutes	10 minutes
CA Panvalet <sup>®</sup>	54 minutes	3 minutes	1 hour 11 minutes	5 minutes
CA Librarian <sup>®</sup>	28 minutes	2 minutes	1 hour 13 minutes	6 minutes
CA SymDump <sup>®</sup> for CICS	38minutes	3 minutes	4 hours 3 minutes	6 minutes

CA also conducted internal testing to assess how quickly the same expert with years of experience applying maintenance to mainframe products and the same novice with no experience applying maintenance to mainframe products could apply fixes using traditional methods and using CA MSM. The table below summarizes the maintenance results for seven of our products with a varying number of fixes.

Product Name	Number of Fixes	Traditional Maintenance Expert	CA MSM Maintenance Expert	Traditional Maintenance Novice	CA MSM Maintenance Novice
CA Auditor for z/OS	14	23 minutes	1 minute 22 seconds	41 minutes	1 minute 30 seconds
CA Cleanup for CA ACF2 <sup>™</sup>	1	6 minutes	38 seconds	33 minutes	1 minute 13 seconds
CA Easytrieve <sup>®</sup>	9	24 minutes	1 minute 24 seconds	60 minutes	1 minute 59 seconds
CA Endeavor <sup>®</sup> Software Change Manager	19	32 minutes	5 minutes 5 seconds	46 minutes	10 minutes 2 seconds
CA Librarian	15	45 minutes	1 minute 58 seconds	38 minutes	2 minutes 55 seconds
CA Panvalet	12	27 minutes	1 minutes 39 seconds	62 minutes	2 minutes 25 seconds
CA View <sup>®</sup>	4	32 minutes	1 minute 48 seconds	37 minutes	1 minute 39 seconds