

Management Information Systems	Assignment Scope FP	Production Rate FP	Staff	Effort in Months	Schedule in Months	Cost	Percentage
1 Requirements	400	90	25	111.11	4.44	\$1,088,889	3.66%
2 Initial Design	200	100	50	100.00	2.00	\$980,000	3.29%
3 Detail Design	200	75	50	133.33	2.67	\$1,306,667	4.39%
4 Coding	150	18	67	555.56	8.33	\$5,444,444	18.29%
5 Reuse Acquisition	2,000	1,000	5	10.00	2.00	\$98,000	0.33%
6 Configuration Management	1,500	250	7	40.00	6.00	\$392,000	1.32%
7 Documentation	1,000	75	10	133.33	13.33	\$1,306,667	4.39%
8 Unit Testing	150	20	67	500.00	7.50	\$4,900,000	16.46%
9 Functional testing	150	23	67	434.78	6.52	\$4,260,870	14.32%
10 System Testing	150	25	67	400.00	6.00	\$3,920,000	13.17%
11 Acceptance Testing	400	35	25	285.71	11.43	\$2,800,000	9.41%
12 Project Management	1,000	30	20	333.33	33.33	\$3,266,667	10.98%
Total / Averages	180	3.29	56	3037.16	54.67	\$29,764,203	100.00%
	Average	Average	Average	Total	Average	Total	Total

Outsourced Software	Assignment Scope FP	Production Rate FP	Staff	Effort in Months	Schedule in Months	Cost	Percentage
1 Requirements	500	85	20	118.00	5.88	\$1,647,059	5.33%
2 Prototyping	2,000	125	5	80.00	16.00	\$1,120,000	3.63%
3 Architecture	2,500	300	4	33.00	8.33	\$466,667	1.51%
4 Initial Design	250	75	40	133.00	3.33	\$1,866,667	6.05%
5 Detail Design	175	60	57	167.00	2.92	\$2,333,333	7.56%
6 Design Reviews	175	125	57	80.00	1.40	\$1,120,000	3.63%
7 Coding	115	25	87	400.00	4.60	\$5,600,000	18.14%
8 Reuse Acquisition	2,000	1,000	5	10.00	2.00	\$140,000	0.45%
9 Code Inspections	115	100	87	100.00	1.15	\$1,400,000	4.53%
10 Configuration Management	1,500	500	7	20.00	3.00	\$280,000	0.91%
11 Formal Integration	2,000	500	5	20.00	4.00	\$280,000	0.91%
12 Documentation	1,000	75	10	133.00	13.33	\$1,866,667	6.05%
13 Unit Testing	125	45.00	80	222.00	2.78	\$3,111,111	10.08%
14 Functional Testing	150	60	67	167.00	2.50	\$2,333,333	7.56%
15 Integration Testing	150	75	67	133.00	2.00	\$1,866,667	6.05%
16 System Testing	200	100	50	100.00	2.00	\$1,400,000	4.53%
17 Acceptance Testing	300	150	33	67.00	2.00	\$933,333	3.02%
18 Project Management	1,200	45	8	222.00	26.67	\$3,111,111	10.08%
Total / Averages	166	5	60	2205.00	36.57	\$30,875,948	100.00%
	Average	Average	Average	Total	Average	Total	Total

System Software	Assignment Scope FP	Production Rate FP	Staff	Effort in Months	Schedule in Months	Cost	Percentage
1 Requirements	400	125	25	80	3.20	\$1,120,000	4.00%
2 Prototyping	1,000	100	10	100	10.00	\$1,400,000	5.00%
3 Architecture	1,500	300	7	33	5.00	\$466,667	1.67%
4 Initial Design	250	100	40	100	2.50	\$1,400,000	5.00%
5 Detail Design	175	75	57	133	2.33	\$1,866,667	6.66%
6 Design Reviews	175	125	57	80	1.40	\$1,120,000	4.00%
7 Coding	125	30	80	333	4.17	\$4,666,667	16.65%
8 Reuse Acquisition	2,000	1,000	5	10	2.00	\$140,000	0.50%
9 Code Inspections	115	90	87	111	1.28	\$1,555,556	5.55%
10 Configuration Management	1,500	750	7	13	2.00	\$186,667	0.67%
11 Formal Integration	2,000	500	5	20	4.00	\$280,000	1.00%
12 Documentation	1,000	75.00	10	133	13.33	\$1,866,667	6.66%
13 Unit Testing	125	60	80	167	2.08	\$2,333,333	8.33%
14 Functional Testing	150	75	67	133	2.00	\$1,866,667	6.66%
15 Integration Testing	150	95	67	105	1.58	\$1,473,684	5.26%
16 System Testing	200	125	50	80	1.60	\$1,120,000	4.00%
17 Field Testing	250	250	40	40	1.00	\$560,000	2.00%
18 Acceptance Testing	300	250	33	40	1.20	\$560,000	2.00%
19 Quality Assurance	1,250	150	8	67	8.33	\$933,333	3.33%
20 Project Management	1,200	45	8	222	26.67	\$3,111,111	11.1
Total / Averages	171	5	59	2002	34.18	\$28,027,018	100.00%
	Average	Average	Average	Total	Average	Total	Total

Commerical Software	Assignment Scope FP	Production Rate FP	Staff	Effort in Months	Schedule in Months	Cost	Percentage
1 Requirements	1,000	150	10	67	6.67	\$766,667	3.17%
2 Prototyping	2,000	125	5	80	16.00	\$920,000	3.18%
3 Initial Design	165	75	61	133	2.20	\$1,533,333	6.34%
4 Detail Design	155	60	65	167	2.58	\$1,916,667	7.93%
5 Design Reviews	200	150	50	67	1.33	\$766,667	3.17%
6 Coding	140	24	71	417	5.83	\$4,791,667	19.82%
7 Reuse Acquisition	2,000	1,000	5	10	2.00	\$115,000	48.00%
8 Code Inspections	150	125	67	80	1.20	\$920,000	3.81%
9 Configuration Management	1,500	500	7	20	3.00	\$230,000	95.00%
10 Formal Integration	2,000	500	5	20	4.00	\$230,000	95.00%
11 Documentation	1,250	90.00	8	111	13.89	\$1,277,778	5.29%
12 Unit Testing	140	45	71	222	3.11	\$2,555,556	10.57%
13 Functional Testing	160	60	63	167	2.67	\$1,916,667	7.93%
14 Integration Testing	160	75	63	133	2.13	\$1,533,333	6.34%
15 System Testing	225	100	44	100	2.25	\$1,150,000	4.76%
16 Beta Testing	500	200	20	50	2.50	\$575,000	2.38%
17 Quality Assurance	1,500	130	7	77	11.54	\$884,615	3.66%
18 Project Management	1,400	55	7	182	25.45	\$2,090,909	8.65
Total / Averages	162	4.76	62	2102	34.10	\$24,173,858	100.00%
	Average	Average	Average	Total	Average	Total	Total

Military Software	Assignment Scope FP	Production Rate FP	Staff	Effort in Months	Schedule in Months	Cost	Percentage
1 Requirements	300	40	33	250	7.50	\$3,750,000	7.14%
2 Prototyping	1,000	100	10	100	10.00	\$1,500,000	2.86%
3 Architecture	1,000	100	10	100	10.00	\$150,000	2.86%
4 Project Plans	1,500	200	7	50	7.50	\$750,000	1.43%
5 Initial Design	170	35	59	286	4.86	\$4,285,714	8.06%
6 Detail Design	135	33	74	303	4.09	\$4,545,455	8.66%
7 Design Reviews	150	50	67	200	3.00	\$3,000,000	5.71%
8 Coding	125	33	80	303	3.79	\$4,545,455	8.66%
9 Reuse Acquisition	2,000	1,000	5	10	2.00	\$150,000	0.29%
10 IV&V	750	125	13	80	6.00	\$1,200,000	2.28%
11 Code Inspections	110	75	91	133	1.47	\$2,000,000	3.81%
12 Configuration Management	1,500	500	7	20	3.00	\$300,000	0.57%
13 Formal Integration	1,500	350	7	29	4.29	\$428,571	0.82%
14 Documentation	600	25.00	17	400	24.00	\$6,000,000	11.42%
15 Unit Testing	125	50	80	200	2.50	\$3,000,000	5.71%
16 Functional Testing	150	60	67	167	2.50	\$2,500,000	4.76%
17 Integration Testing	150	70	67	143	2.14	\$2,142,857	4.08%
18 System Testing	150	60	67	167	2.50	\$2,500,000	4.76%
19 Independent Testing	250	100	40	100	2.50	\$1,500,000	2.86%
20 Acceptance Testing	300	250	33	40	1.20	\$600,000	1.14%
21 Quality Assurance	1,000	125	10	80	8.00	\$1,200,000	2.28%
22 Installation	2,000	1,250	5	8	1.60	\$120,000	0.23%
23 Project Management	1,000	30	10	333	33.33	\$5,000,000	9.52%
Total / Averages	133	2.86	75	3501	46.63	\$52,518,052	100.00%
	Average	Average	Average	Total	Average	Total	Total