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500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS FOR RDT&E, FY-81. (U)
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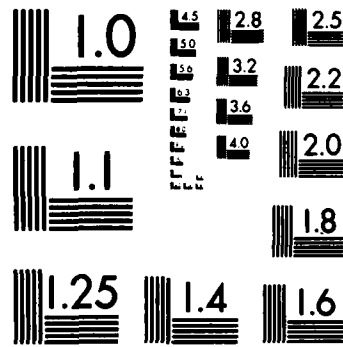
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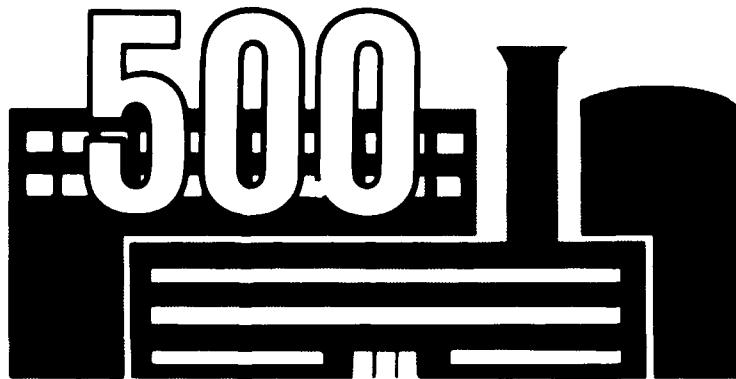


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500 CONTRACTORS
RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
FOR RDT&E
Fiscal Year 1981



Department of Defense

**500 CONTRACTORS RECEIVING THE LARGEST
DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR
RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**

Fiscal Year 1981

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FOREWORD

500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test, and Evaluation (RDT&E) is published annually by the Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (WHS/DIOR).

This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DOD) prime contract awards over \$10,000 for RDT&E in Fiscal Year (FY) 1981. These data are presented in five tables showing:

1. An alphabetical listing of the top 500 companies, with rank;
2. The ranking of and net value of awards to business firms operating in the United States;
3. The ranking of and net value of awards to educational and other nonprofit institutions operating in the United States;
4. The ranking of and net value of awards to foreign contractors; and
5. The ranking of and net value of awards to U.S. Government agencies.

Requests for additional information should be addressed to WHS/DIOR Special Projects Division, Room 1C535, The Pentagon, Washington, D.C., 20301, or call (202) 695-6815.

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INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DOD) awards over \$10,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year (FY) 1981. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in Defense Acquisition Regulation 4-101.)

Table 1 (page 5) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 11) shows the net value of awards to business firms operating in the United States, by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's individual locations is also provided. Tables 3, 4, and 5 (pages 25, 29, and 31, respectively) provide the net value of awards to educational and other nonprofit institutions operating in the United States, foreign contractors, and U.S. government agencies, respectively. While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1. As in Table 2, contractors in Tables 3 through 5 are shown by rank, along with the net value of awards to each of the contractor's individual locations.

NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$10,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Since FY 1980, contract awards for civil functions have been included in these data. (Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.) Data prior to FY 1980 were limited to military prime contract awards.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown is that of the Defense facility rather than the contractor.

HIGHLIGHTS OF FY 1981 DATA

Table A (page 2) shows the net value and percent distribution of all RDT&E awards, RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1981. The distribution of FY 1981 awards varies only slightly from that in FY 1980. In FY 1981, the top 500 contractors included 383 U.S. business firms (190 of which were small businesses); 106 educational and nonprofit institutions; 7 foreign contractors; and 4 U.S. government agencies.

TABLE A

TYPE OF CONTRACTOR	TOTAL RDT&E			500 CONTRACTORS RDT&E			ALL OTHER RDT&E		
	NUMBER OF CONTRACTORS	AWARDS (\$000)	PERCENT OF TOTAL	NUMBER OF CONTRACTORS	AWARDS (\$000)	PERCENT OF TOTAL	NUMBER OF CONTRACTORS	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	<u>2,008</u>	<u>\$10,481,722</u>	<u>100</u>	<u>500</u>	<u>\$10,224,585</u>	<u>100</u>	<u>1,508</u>	<u>257,137</u>	<u>100</u>
BUSINESS FIRMS	<u>1,604</u>	<u>9,142,435</u>	<u>87</u>	<u>383</u>	<u>8,929,974</u>	<u>87</u>	<u>1,221</u>	<u>212,461</u>	<u>83</u>
Small	1,127	668,017	6	190	513,694	5	937	154,323	60
Large	477	8,474,418	81	193	8,416,280	82	284	58,138	23
EDUCATIONAL & NONPROFIT	<u>310</u>	<u>1,256,406</u>	<u>12</u>	<u>106</u>	<u>1,219,059</u>	<u>12</u>	<u>204</u>	<u>37,347</u>	<u>15</u>
Educational	199	711,221	7	79	685,428	7	120	25,793	10
Other Nonprofit	111	545,185	5	27	533,631	5	84	11,554	4
U.S. GOVERNMENT AGENCIES	<u>10</u>	<u>29,157</u>	*	<u>4</u>	<u>27,042</u>	*	<u>6</u>	<u>2,115</u>	<u>1</u>
FOREIGN	<u>84</u>	<u>53,724</u>	<u>1</u>	<u>7</u>	<u>48,510</u>	*	<u>77</u>	<u>5,214</u>	<u>2</u>
Nonprofit	35	8,602	*	2	8,902	*	33	1,700	1
Business Firms	49	45,122	*	5	41,608	*	44	3,514	1

Note: An "*" in the percent column represents a figure of less than 0.05 percent. Percentages may not add due to rounding.

TABLE B

TYPE	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	<u>\$10,481,722</u>	<u>100.0</u>
Engineering Development	4,806,837	45.9
Advanced Development	2,129,975	20.3
Operational Systems	1,295,684	12.4
Exploratory Development	1,081,072	10.3
Research	694,155	6.6
Management and Support	473,999	4.5

TABLE C

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	<u>\$10,481,722</u>	<u>100.0</u>
Missiles & Space Systems	4,603,207	43.9
Electronics & Communications Equipment	2,580,957	24.6
Services	1,474,447	14.1
Aircraft	739,172	7.1
Ships	292,676	2.8
Weapons	253,464	2.4
Ammunition	208,356	2.0
Tank-Automotive	149,853	1.4
All Other	179,590	1.7

In FY 1980 the top 500 consisted of 375 U.S. business firms (176 were small businesses); 113 educational and nonprofit institutions; 7 foreign contractors; and 5 U.S. government agencies. In FY 1981, there were 96 contractors that made the top 500 list that had not appeared on the FY 1980 list, the same number as in FY 1980.

In addition to the top 500 contractors, there were 1,508 other contractors for whom RDT&E procurement actions over \$10,000 were reported, for a total of 2,008 contractors for FY 1981. In FY 1980, the total number of contractors was 2,026. The top 500 RDT&E contractors received awards totaling \$10,225 million in FY 1981, compared to \$9,253 million in FY 1980, an increase of \$972 million or 10.5 percent. The \$10,225 million represents 97.5 percent of the \$10,482 million total prime contract awards over \$10,000 for RDT&E work in FY 1981.

Of the 25 contractors with RDT&E awards of \$100 million or more in FY 1981, 21 were business firms and 4 were educational and other nonprofit institutions. These 25 contractors had a total of \$6,651 million in RDT&E awards. In FY 1980, there were 23 contractors who reached the \$100 million plateau, with awards totaling \$5,944 million. Of these 23 contractors, 20 were business firms and 3 were educational and other nonprofit institutions. The amount of awards for this \$100 million group increased by \$707 million or 11.9 percent between FY 1980 and 1981.

Table B (page 2) shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of awards for each of these types in FY 1981. Engineering development accounted for the majority (45.9 percent) of RDT&E awards, followed by advanced development (20.3 percent).

Table C (page 2) shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missiles & space systems and electronic & communications equipment. In FY 1981, a combined total of \$7,184 million or 68.5 percent of all RDT&E awards over \$10,000 was for work connected with these programs.

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors
for Research, Development, Test, and Evaluation Work: FY 1981**

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
49 B	A A I CORP	47 B	B D M CORP
276 B	A L S ELECTRONICS CORP	166 B	B D M SERVICES CO
170 B	A M GENERAL CORP	331 B	B K DYNAMICS INC
232 B	ACUREX CORP	293 B	BALL BROS RESEARCH CORP
484 B	ADVANCED DESIGN CORP	467 B	BATTELLE COLUMBUS LABORATORIES
445 B	ADVANCED INFORMATION & DECN SYS	77 N	BATTELLE MEMORIAL INSTITUTE
433 B	ADVANCED MARINE ENTERPRISES INC	479 B	BEDFORD RESEARCH ASSOCIATES INC
309 B	ADVANCED RESEARCH & APPL CORP	306 B	BELL & HOWELL CO
469 B	ADVANCED TECHNOLOGY	66 B	BENDIX CORP
211 B	ADVANCED TECHNOLOGY INC	100 B	BENDIX FIELD ENGINEERING CORP
354 B	AERODYNE RESEARCH INC	190 B	BETAC CORP
25 B	AEROJET GENERAL CORP	417 B	BLOCK ENGINEERING INC
315 B	AEROMET INC	9 B	BOEING AEROSPACE CO
345 B	AERONAUTICAL RESEARCH ASSOCIATES	2 B	BOEING CO
10 N	AEROSPACE CORP	382 B	BOEING COMPUTER SERVICES INC
387 N	ALABAMA UNIVERSITY OF	149 B	BOEING VERTOL CO
329 B	ALTUS CORP	110 B	BOLT BERANEK & NEWMAN INC
159 F	ALVIS LTD	128 B	BOOZ ALLEN & HAMILTON INC
286 B	AMERICAN ELECTRONIC LABS INC	378 B	BOOZ ALLEN APPLIED RESEARCH INC
337 N	AMERICAN HEALTH FOUNDATION	229 N	BOSTON COLLEGE
114 B	AMERICAN HOME PRODUCTS CORP	241 N	BOSTON UNIVERSITY
60 B	AMEX SYSTEMS INC	347 B	BROWN DAYTON T INC
288 B	AMPEX CORP	353 N	BROWN UNIVERSITY
348 B	ANACAPA SCIENCES INC	125 B	BRUNSWICK CORP
260 B	ANALYSIS & COMPUTER SYSTEMS INC	102 B	BUNKER RAMO CORP
180 B	ANALYSIS & TECHNOLOGY INC	213 B	BURROUGHS CORP
468 B	ANALYTIC DECISIONS INC	448 B	C D I CORP
89 B	ANALYTIC SCIENCES CORP	371 B	C N R INC
137 N	ANALYTIC SERVICES INC	294 B	C T E C
424 B	ANALYTICAL ASSESSMENTS CORP	465 B	CADILLAC GAGE CO
130 B	ANALYTICAL SYSTEMS ENGR CORP	333 B	CADRE CORP
171 B	ANALYTICS INC	366 B	CALCULON CORP
367 B	ANALYTYX ELECTRONICS SYSTEMS INC	187 N	CALIFORNIA INSTITUTE OF TECHNOLOGY
492 B	APPLICATIONS RESEARCH CORP	408 B	CALIFORNIA RESEARCH & TECHNOLOGY
466 B	APPLICON INC	57 N	CALIFORNIA UNIVERSITY OF
291 B	APPLIED RESEARCH INC	45 B	CALSPAN CORP
364 B	APPLIED SCIENCE ASSOCIATES INC	79 F	CANADIAN COMMERCIAL CORP
116 B	ARES INC	319 N	CAPITOL RADIO ENGINEERING INST INC
373 B	ARETE ASSOCIATES INC	135 N	CARNEGIE MELLON UNIVERSITY
208 B	ARGO SYSTEMS INC	383 B	CAS INC
152 B	ARINC RESEARCH CORP	254 N	CASE WESTERN RESERVE UNIVERSITY
203 N	ARIZONA UNIVERSITY OF	425 B	CHALCO ENGINEERING CORP
421 B	ARMAMENT SYSTEMS INC	184 B	CHAMBERLAIN MFG CORP
271 B	ATLANTIC ANALYSIS CORP	43 N	CHARLES STARK DRAPER LABS INC
162 B	ATLANTIC RESEARCH CORP	139 B	CHRYSLER CORP
356 B	AUERBACH ASSOCIATES INC	32 B	CHRYSLER DEFENSE INC
360 B	AUSTIN RESEARCH ASSOCIATES	107 B	CINCINNATI ELECTRONICS CORP
30 B	AUTOMATION INDUSTRIES INC	430 N	CLEMSON UNIVERSITY
24 B	AVCO CORP	253 N	COLORADO STATE UNIVERSITY
112 B	AVCO EVERETT RESEARCH LABORATORY	322 N	COLORADO UNIVERSITY

* B = BUSINESS FIRM
F = FOREIGN CONTRACTOR
N = NON PROFIT INSTITUTION

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors
for Research, Development, Test, and Evaluation Work: FY 1981
(Continued)**

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
156 N	COLUMBIA UNIVERSITY	473 N	EMMANUEL COLLEGE
109 B	COMMAND CONTROL & COMMUNICATION	385 B	ENERGY RESEARCH CORP
169 B	COMPTTEK RESEARCH INC	195 B	ENGINEERING RESEARCH ASSOCIATES
480 B	COMPUGRAPHIC CORP	129 B	ENSCO INC
252 B	COMPUTER CORP OF AMERICA	148 N	ENVIRONMENTAL RSCH INST OF MICH
56 B	COMPUTER SCIENCES CORP	497 B	ERTEC WESTERN INC
391 B	CONAX CORP	470 B	ESSEX CORP
98 B	CONTROL DATA CORP	147 B	EX CELL O CORP
179 N	CORNELL UNIVERSITY	40 B	F M C CORP
346 B	CORNING GLASS WORKS	202 B	FAIRCHILD CAMERA & INSTRUMENT CORP
446 B	CORVUS SYSTEMS INC	85 B	FAIRCHILD INDUSTRIES INC
427 B	CRAIG SYSTEMS CORP	426 B	FALCON RESEARCH & DEVELOPMENT CO
181 B	CUBIC CORP	428 B	FEDERAL ELECTRIC CORP
247 B	CUMMINS ENGINE CO INC	341 B	FIBER MATERIALS INC
136 B	CURTISS WRIGHT CORP	298 B	FIGGIE INTERNATIONAL INC
222 B	D B A SYSTEMS INC	359 B	FIRESTONE TIRE & RUBBER CO
93 N	DAYTON UNIVERSITY OF	227 B	FLIGHT SYSTEMS INC
361 B	DECISION SCIENCE APPLICATIONS INC	314 N	FLORIDA STATE UNIVERSITY
193 B	DECISIONS & DESIGNS INC	303 N	FLORIDA TECHNOLOGICAL UNIVERSITY
472 B	DEFENSE SYSTEMS INC	301 N	FLORIDA UNIVERSITY
266 B	DELEX SYSTEMS INC	62 B	FORD AEROSPACE & COMMUNICATIONS
406 B	DENELCOR INC	289 B	FREQUENCY & TIME SYSTEMS INC
401 N	DENVER UNIVERSITY OF	404 B	FREQUENCY ELECTRONICS INC
409 B	DESIGNERS & PLANNERS INC	73 B	FUGRO NATIONAL INC
212 B	DEVELOPMENTAL SCIENCES INC	71 B	G T E PRODUCTS CORP
395 B	DIGITAL COMMUNICATIONS CORP	20 B	G T E SYLVANIA INC
255 B	DIGITAL EQUIPMENT CORP	119 B	GARRETT CORP
377 B	DIKEWOOD INDUSTRIES INC	261 B	GENERAL ATRONICS CORP
400 B	DOTY ASSOCIATES	174 B	GENERAL DEFENSE CORP
435 N	DREXEL UNIVERSITY	6 B	GENERAL DYNAMICS CORP
355 N	DUKE UNIVERSITY	5 B	GENERAL ELECTRIC CO
82 B	DYNAELECTRON CORP	58 B	GENERAL MOTORS CORP
177 B	DYNAMICS RESEARCH CORP	250 B	GENERAL OFFSHORE CORP
452 B	DYNAMICS SYSTEMS CORP	81 B	GENERAL RESEARCH CORP
224 B	DYNETICS INC	312 B	GENTEX CORP
104 B	E G & G INC	450 B	GEODYNAMICS CORP
51 B	E S L INC	256 N	GEORGE WASHINGTON UNIVERSITY
124 B	E SYSTEMS INC	368 N	GEORGETOWN UNIVERSITY
444 B	EAGLE TECHNOLOGY INC	154 N	GEORGIA INSTITUTE TECH
414 B	EASTMAN KODAK CO	72 N	GEORGIA TECH RESEARCH INSTITUTE
194 B	EATON CORP	451 B	GIBBS & COX INC
120 B	EATON CUTLER HAMMER	54 B	GLOBAL ASSOCIATES
455 B	EDMAC ASSOCIATES INC	352 B	GLOBAL MARINE DEVELOPMENT INC
131 B	EDO CORP	95 B	GOODYEAR AEROSPACE CORP
464 B	EDUCATIONAL COMPUTER CORP	106 B	GOULD INC
272 B	EFFECTS TECHNOLOGY INC	35 B	GRUMMAN AEROSPACE CORP
282 B	ELECTRO SPACE SYSTEMS INC	434 B	GRUMMAN CORP
181 B	ELECTRONIC WARFARE ASSOCIATES	327 B	H I T C O
205 B	ELECTROSPACE SYSTEMS INC	146 B	H R B SINGER INC
80 B	EMERSON ELECTRIC CO	117 B	HANSON R A CO INC

* B = BUSINESS FIRM
F = FOREIGN CONTRACTOR
N = NON PROFIT INSTITUTION

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors
for Research, Development, Test, and Evaluation Work: FY 1981
(Continued)**

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
31 B	HARRIS CORP	495 B	LOCKHEED ELECTRONICS CO INC
163 B	HARSCO CORP	11 B	LOCKHEED MISSILES & SPACE CO INC
242 N	HARVARD UNIVERSITY	245 B	LOCKHEED SHIPBUILDING CONSTRUCTION
284 N	HAWAII UNIVERSITY OF	393 B	LOCUS INC
61 B	HAZELTINE CORP	64 B	LOGICON INC
83 B	HENNINGSTON DURHAM RICHARDSON	127 B	LORAL CORP
34 B	HERCULES INC	420 N	LOUISIANA STATE UNIVERSITY OF
12 B	HONEYWELL INC	423 B	M & S COMPUTING INC
290 B	HORIZONS TECHNOLOGY INC	496 B	MAC AULAY BROWN INC
4 B	HUGHES AIRCRAFT CO	158 B	MAGNAVOX ADVANCED PROD & SYS CO
330 B	HUGHES RESEARCH LABORATORIES	59 B	MAGNAVOX CO
215 N	HUMAN RESOURCES RESEARCH ORGN	46 B	MAGNAVOX GOVT & INDUSTRIAL ELEC CO
223 B	HYCOR INC	251 B	MAN TECH CORP
447 B	HYDROACOUSTICS INC	239 B	MANTECH INTERNATIONAL CORP
500 B	I L C DOVER	491 B	MAR INC
457 B	I M R SYSTEMS CORP	191 F	MARCONI CO LTD
192 B	I R T CORP	463 B	MARINETTE MARINE CORP
67 B	I T T & WESTINGHOUSE JV	218 B	MARQUARDT CO
141 B	I T T GILFILLAN INC	339 B	MARTIN & STERN INC
48 N	ILLINOIS INSTITUTE TECHNOLOGY	1 B	MARTIN MARIETTA CORP
144 N	ILLINOIS UNIVERSITY OF	138 N	MARYLAND UNIVERSITY OF
88 N	INSTITUTE FOR DEFENSE ANALYSIS	15 N	MASSACHUSETTS INSTITUTE TECHNOLOGY
384 B	INTER SYSTEMS INC	326 N	MASSACHUSETTS UNIVERSITY OF
220 B	INTERMETRICS INC	269 B	MATHEMATICAL SCIENCE NORTHWEST INC
14 B	INTERNATIONAL BUSINESS MACHINE CO	317 F	MATRA CO
342 B	INTERNATIONAL COMPUTING CO	99 B	MAXWELL LABORATORIES INC
488 B	INTERNATIONAL HARVESTER CO	69 B	MCDONNELL DOUGLAS CORP
305 B	INTERNATIONAL LASER SYSTEMS INC	439 B	MCFANN GRAY & ASSOCIATES
27 B	INTERNATIONAL TELEPHONE & TEL CORP	283 B	MCMULLEN JOHN J ASSOCIATES INC
143 B	INTERSTATE ELECTRONICS CORP	415 B	MEASUREMENT CONCEPT CORP
374 N	IOWA UNIVERSITY OF	233 N	MIAMI UNIVERSITY OF
122 B	ITEK CORP	458 N	MICHIGAN STATE UNIVERSITY
422 B	J R B ASSOCIATES INC	482 N	MICHIGAN TECHNOLOGICAL UNIVERSITY
118 B	JAYCOR	199 N	MICHIGAN UNIVERSITY OF
13 N	JOHNS HOPKINS UNIVERSITY	438 B	MICROELECTRONICS ENGINEERING CORP
265 B	K D I PRECISION PRODUCTS INC	441 B	MICROWAVE ASSOCIATES INC
111 B	KAMAN SCIENCES CORP	449 B	MINE SAFETY APPLIANCES CO
52 B	KENTRON HAWAII LTD	277 N	MINNESOTA UNIVERSITY OF
487 B	KERNCO ONC	113 B	MISSION RESEARCH CORP
225 B	KETRON INC	416 N	MISSOURI UNIVERSITY OF
462 B	KTECH CORP	21 N	MITRE CORP
429 B	KURAS ALTERMAN CORP	37 B	MOTOROLA INC
178 B	LEAR SIEGLER INC	142 N	NATIONAL ACADEMY OF SCIENCES
399 N	LEHIGH UNIVERSITY	476 N	NATIONAL SCIENCE FOUNDATION
262 B	LIBRA TECHNOLOGY	390 B	NETWORK ANALYSIS CORP
175 B	LINKABIT CORP	285 N	NEW MEXICO INSTITUTE MINING & TECH
145 B	LITTLE ARTHUR D INC	186 N	NEW MEXICO STATE UNIVERSITY
478 B	LITTON INDUSTRIES INC	140 N	NEW MEXICO UNIVERSITY OF
38 B	LITTON SYSTEMS INC	485 B	NEW TECHNOLOGY INC
26 B	LOCKHEED CORP	292 N	NEW YORK POLYTECHNIC INSTITUTE

* B = BUSINESS FIRM
F = FOREIGN CONTRACTOR
N = NON PROFIT INSTITUTION

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors
for Research, Development, Test, and Evaluation Work: FY 1981
(Continued)**

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
295 N	NEW YORK STATE UNIV RESEARCH FOUND	236 N	PRINCETON UNIVERSITY
392 N	NEW YORK UNIVERSITY	296 B	PROTOTYPE DEVELOPMENT INC
168 B	NEWPORT NEWS SHIPBLD & DRY DOCK CO	278 N	PURDUE RESEARCH FOUNDATION
188 B	NICHOLS RESEARCH CORP	210 B	QUEST RESEARCH CORP
419 B	NIELSEN ENGINEERING & RESEARCH CO	381 B	QUESTRON CORP
96 B	NORDEN SYSTEMS INC	65 B	R & D ASSOCIATES
456 B	NORTH AMERICAN PHILIPS CORP	16 B	R C A CORP
380 N	NORTH CAROLINA STATE UNIVERSITY	461 B	RADIAN CORP
460 N	NORTH CAROLINA UNIVERSITY OF	398 B	RAIL CO INC
328 N	NORTHEASTERN UNIVERSITY	68 N	RAND CORP
22 B	NORTHROP CORP	90 F	RAUFOSS AMMUNISJONSFABRIKKER
248 N	NORTHWESTERN UNIVERSITY	334 B	RAYCOMM INDUSTRIES INC
481 B	NUCLEAR METALS INC	19 B	RAYTHEON CO
246 B	O A O CORP	279 N	RENSELAER POLYTECHNIC INSTITUTE
126 B	O R I INC	370 B	RESEDL ENGINEERING CORP
376 B	OCEAN DATA SYSTEMS INC	351 N	RESEARCH TRIANGLE INSTITUTE
475 B	OCEAN TECHNOLOGY INC	299 N	RHODE ISLAND UNIVERSITY OF
201 N	OHIO STATE UNIV RESERCH FOUNDATION	221 N	RIVERSIDE RESEARCH INSTITUTE
389 N	OHIO STATE UNIVERSITY THE	86 N	ROCHESTER UNIVERSITY OF
263 N	OKLAHOMA STATE UNIVERSITY OF	3 B	ROCKWELL INTERNATIONAL CORP
388 B	OPTI METRICS INC	320 B	ROME RESEARCH CORP
207 N	OREGON STATE UNIVERSITY	454 B	ROSENBLATT M SON INC
396 B	ORINCON CORP	176 F	ROYAL NORWEGIAN NAV MAT COMM
379 B	ORLANDO TECHNOLOGY INC	372 B	S C I SYSTEMS INC
483 B	P E SYSTEMS INC	53 N	S R I INTERNATIONAL
198 B	PACCAR INC	405 B	SACHS FREEMAN ASSOCIATES INC
308 B	PACER SYSTEMS INC	403 N	SALK INSTITUTE THE
489 B	PACIFIC ANALYSIS CORP	50 B	SANDERS ASSOCIATES INC
214 B	PACIFIC SIERRA RESEARCH CORP	200 B	SANDERS ASSOCS & NORTHROP CORP JV
358 B	PACIFICA TECHNOLOGY	244 B	SANTA BARBARA RESEARCH CENTER
313 N	PALISADES GEOPHYSICAL INSTITUTE	402 B	SANTA FE CORP
486 N	PALISADES INSTITUTE	216 B	SCHAFFER W J ASSOCIATES INC
105 B	PARSONS RALPH M CO INC	42 B	SCIENCE APPLICATIONS INC
157 B	PATTERN ANALYSIS & RECOGNITION CO	431 B	SCIENTIFIC TECH ASSOCIATES INC
87 N	PENNSYLVANIA STATE UNIVERSITY	394 B	SCIPAR INC
155 N	PENNSYLVANIA UNIVERSITY OF	196 B	SCOTT AVIATION SIERRA PRODUCTS INC
264 B	PERCEPTRONICS INC	249 B	SEMCOR INC
123 B	PERKIN ELMER CORP	471 B	SHARP GEORGE G INC
410 B	PETERSON BUILDERS INC	498 B	SIERRA GEOPHYSICS INC
324 B	PHYSICAL SCIENCES CORP	369 B	SIERRA RESEARCH CORP
413 B	PHYSICS APPLICATIONS INC	240 B	SIGNATRON INC
101 B	PHYSICS INTERNATIONAL CO	41 B	SINGER CO
151 B	PIPER AIRCRAFT CORP	103 B	SOFTTECH INC
287 N	PITTSBURGH UNIVERSITY OF	459 B	SONALYSTS INC
92 B	PLANNING RESEARCH CORP	258 B	SONICRAFT INC
230 B	PLANNING SYSTEMS INC	243 N	SOUTHEASTERN CTR ELECT ENGR EDUC
440 B	POLAR RESEARCH LABORATORY INC	97 N	SOUTHERN CALIFORNIA UNIVERSITY OF
477 B	POLARIS INC	318 N	SOUTHERN RESEARCH INSTITUTE
182 B	POTOMAC RESEARCH INC	167 N	SOUTHWEST RESEARCH INSTITUTE
235 B	PRESEARCH INC	275 B	SPACE DATA CORP

* B = BUSINESS FIRM
F = FOREIGN CONTRACTOR
N = NON PROFIT INSTITUTION

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors
for Research, Development, Test, and Evaluation Work: FY 1981
(Continued)**

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
274 B	SPACE VECTOR CORP	29 B	TEXAS INSTRUMENTS INC
209 B	SPARTON CORP	304 N	TEXAS TECHNOLOGICAL COLLEGE
234 B	SPEARS ASSOCIATES INC	78 N	TEXAS UNIVERSITY OF
412 B	SPECTRA RESEARCH SYSTEMS INC	39 B	TEXTRON INC
443 B	SPECTRAL DYNAMICS CORP	28 B	THIokol CORP
33 B	SPERRY CORP	108 B	TRACOR INC
436 B	SPIRE CORP	300 B	TRACOR MARINE INC
197 B	STANFORD TELECOMMUNICATIONS INC	268 B	TRIAD MICROSYSTEMS INC
74 N	STANFORD UNIVERSITY	280 B	ULTRASYSTEMS INC
172 B	STEARNS ROGER INC	365 B	UNIFIED INDUSTRIES INC
160 B	STENCEL AERO ENGINEERING CORP	237 F	UNITED KINGDOM MINISTRY OF DEFENCE
494 B	STERLING SYSTEMS INC	206 B	UNITED SPACE BOOSTERS INC
311 N	STEVENS INSTITUTE OF TECHNOLOGY	228 N	UNITED STATES COMMERCE DEPT
307 B	SUERDRUP TECHNOLOGY INC	76 N	UNITED STATES NATL AERO SPACE AGY
23 B	SUMMA CORP	8 B	UNITED TECHNOLOGIES CORP
310 B	SUMMIT RESEARCH CORP	297 B	UNIVERSAL ENERGY SYSTEMS INC
411 B	SUPPORT SYSTEMS ASSOCIATES INC	121 N	UTAH STATE UNIVERSITY
55 B	SVERDRUP TECHNOLOGY INC	316 N	UTAH UNIVERSITY OF
273 B	SYNECTICS CORP	219 B	V S E CORP
257 B	SYNOPTIC SYSTEMS CORP	397 B	VALIDITY CORP
335 N	SYRACUSE RESEARCH CORP	133 B	VARIAN ASSOCIATES
325 N	SYRACUSE UNIVERSITY	344 B	VARO INC
490 N	SYRACUSE UNIVERSITY RESEARCH CORP	173 B	VECTOR RESEARCH INC
75 B	SYSTEM DEVELOPMENT CORP	338 B	VEDA INC
115 B	SYSTEM PLANNING CORP	349 B	VERAC INC
267 B	SYSTEMATICS GENERAL CORP	259 N	VIRGINIA POLYTECHNIC INSTITUTE
70 B	SYSTEMS & APPLIED SCIENCES CORP	362 N	VIRGINIA UNIVERSITY OF
302 B	SYSTEMS ARCHITECTS INC	363 B	VISIDYNE INC
164 B	SYSTEMS CONSULTANTS INC	18 B	VOUGHT CORP
165 B	SYSTEMS CONTROL INC	474 B	VREDENBURG R M & CO
332 B	SYSTEMS ENGINEERING LABORATORIES	323 B	WAGNER DANIEL H ASSOCIATES INC
375 B	SYSTEMS PLANNING & ANALYSIS INC	343 B	WASHINGTON PATROL SERVICE INC
91 B	SYSTEMS RESEARCH LABORATORIES INC	442 N	WASHINGTON STATE UNIVERSITY
150 B	SYSTEMS SCIENCE & SOFTWARE	418 N	WASHINGTON UNIVERSITY
493 B	SYSTRAN CORP	94 N	WASHINGTON UNIVERSITY OF
189 B	T A D COMMUNICATIONS CO	437 B	WATKINS JOHNSON CO
7 B	T R W INC	281 B	WEIDLINGER ASSOCIATES CONSULT ENGR
270 B	TECHNITROL INC	321 N	WENTWORTH INSTITUTE
499 B	TECHNOLOGY DEVELOPMENT CORP CALIF	63 B	WESTERN ELECTRIC CO INC
350 B	TECHNOLOGY INC	17 B	WESTINGHOUSE ELECTRIC CORP
153 B	TECHNOLOGY SERVICE CORP	204 B	WHITTAKER CORP
84 B	TELEDYNE BROWN ENGINEERING	36 B	WILLIAMS INTERNATIONAL CORP
217 B	TELEDYNE C A E	185 N	WISCONSIN UNIVERSITY OF
336 B	TELEDYNE GEOTECH	132 N	WOODS HOLE OCEANOGRAPHIC INST
432 B	TELEDYNE INC	238 B	XEROX CORP
44 B	TELEDYNE INDUSTRIES INC	134 B	XEROX ELECTRO OPTICAL SYSTEMS INC
357 B	TELEPHONICS	386 B	XETRON CORP
407 N	TENNESSEE UNIVERSITY OF	340 B	XONICS INC
183 B	TETRA TECH INC	453 B	XYBION CORP
226 N	TEXAS A & M RESEARCH FOUNDATION	231 N	YALE UNIVERSITY

* B = BUSINESS FIRM
F = FOREIGN CONTRACTOR
N = NON PROFIT INSTITUTION

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
1	MARTIN MARIETTA CORP VANDENBERG AFB CALIFORNIA DENVER COLORADO WATERTON COLORADO ORLANDO FLORIDA BALTIMORE MARYLAND WAKEFIELD MASS	844,251 * 69,470 399,762 12,924 353,744 423 7,928		GENERAL ELECTRIC CO CINCINNATI OHIO EVENDALE OHIO ERIE PA KING OF PRUSSIA PA PHILADELPHIA PA VALLEY FORGE PA BURLINGTON VERMONT ARLINGTON VIRGINIA	91,559 16,290 170 68,134 32,415 852 22,180 847
2	BOEING CO HUNTSVILLE GERMANY VANDENBERG AFB ALABAMA WICHITA KANSAS KIRTLAND AFB NEW MEXICO GREENVILLE TEXAS HOUSTON TEXAS EVERETT WASHINGTON KENT WASHINGTON SEATTLE WASHINGTON TUKWILA WASHINGTON	646,674 * 7,290 3,923 174- 72,965 17 87,784 53 256 256,246 215,030 3,284	6	GENERAL DYNAMICS CORP YUMA ARIZONA POMONA CALIFORNIA PORT HUENEME CALIFORNIA SAN DIEGO CALIFORNIA VANDENBERG AFB CALIFORNIA GROTON CONN QUINCY MASS NELLIS AFB NEVADA KIRTLAND AFB NEW MEXICO FORT WORTH TEXAS	345,386 * 400 108,896 1,227 145,919 27,914 27,052 132 815 2,870 30,161
3	ROCKWELL INTERNATIONAL CORP ANAHEIM CALIFORNIA CANOGA PARK CALIFORNIA DOWNEY CALIFORNIA EL SEGUNDO CALIFORNIA LOS ANGELES CALIFORNIA NEWPORT BEACH CALIFORNIA SEAL BEACH CALIFORNIA THOUSAND OAKS CALIFORNIA VANDENBERG AFB CALIFORNIA CEDAR RAPIDS IOWA PATUXENT RIVER MARYLAND KIRTLAND AFB NEW MEXICO COLUMBUS OHIO DAYTON OHIO WRIGHT PATTERS OHIO DALLAS TEXAS EL PASO TEXAS RICHARDSON TEXAS	605,907 * 191,231 139,034 51,677 2,005 59,407 11,682 61,079 8,041 5,255 42,182 23- 50 27,781 54 94 2,754 22- 3,626	7	T R W INC HUNTSVILLE ALABAMA NEWBURY PARK CALIFORNIA NORTON AFB CALIFORNIA REDONDO BEACH CALIFORNIA SAN DIEGO CALIFORNIA SAN JUAN CAPIS CALIFORNIA EGLIN AFB FLORIDA CLEVELAND OHIO DAYTON OHIO PHILADELPHIA PA FORT HOOD TEXAS LANGLEY AFB VIRGINIA MCLEAN VIRGINIA	276,158 * 2,202 957 62,741 161,428 60 1,559 29 1,469 42 15 150 111 25,395
4	HUGHES AIRCRAFT CO TUCSON ARIZONA CANOGA PARK CALIFORNIA CARLSBAD CALIFORNIA CULVER CITY CALIFORNIA EL SEGUNDO CALIFORNIA FULLERTON CALIFORNIA IRVINE CALIFORNIA LOS ANGELES CALIFORNIA MALIBU CALIFORNIA NEWPORT BEACH CALIFORNIA TORRANCE CALIFORNIA SOUTH BOULDER COLORADO	546,316 * 40,947 131,538 730 91,829 74,246 187,267 330 9,475 4,800 285 4,660 209	8	UNITED TECHNOLOGIES CORP FORT RUCKER ALABAMA COYOTE CALIFORNIA SUNNYVALE CALIFORNIA EAST HARTFORD CONN HARTFORD CONN NORFOLK CONN NORWALK CONN SOUTH WINDSOR CONN STRATFORD CONN WINDSOR LOCKS CONN WEST PALM BEACH FLORIDA KIRTLAND AFB NEW MEXICO MELVILLE NEW YORK FORT WASHINGTON PA FALLS CHURCH VIRGINIA	230,764 * 246 30 2,914 6,170 50 5,670 21,885 1,895 60,316 2,545 125,969 184 73 2,255 60
5	GENERAL ELECTRIC CO HUNTSVILLE T T PAC IS WILLIAMS AFB ALABAMA SANTA BARBARA ARIZONA SUNNYVALE CALIFORNIA WASHINGTON DC ARCHER FLORIDA DAYTONA BEACH FLORIDA LANHAM MARYLAND BEDFORD MASS LYNN MASS PITTSFIELD MASS WEST LYNN MASS WILMINGTON MASS BINGHAMTON NEW YORK JOHNSON CITY NEW YORK SCHENECTADY NEW YORK SYRACUSE NEW YORK UTICA NEW YORK	471,233 * 721 475 2,838 2,579 315 399 36 10,036 42 2,048 40,784 8,980 32,320 750 2,610 3,305 65,318 36,874 26,356	9	BOEING AEROSPACE CO HUNTSVILLE ALABAMA SUNNYVALE CALIFORNIA HOUSTON TEXAS KENT WASHINGTON SEATTLE WASHINGTON	200,722 * 188 150 29 1,860 98,495
			11	LOCKHEED MISSILES & SPACE CO INC HUNTSVILLE ALABAMA PALO ALTO CALIFORNIA SUNNYVALE CALIFORNIA ALBUQUERQUE NEW MEXICO	196,194 * 2,923 17,261 75,900 110
			12	HONEYWELL INC CHINA LAKE FRANCE SAN DIEGO CALIFORNIA WEST COVINA CALIFORNIA DENVER COLORADO CLEARWATER FLORIDA ST PETERSBURG FLORIDA	191,523 640 55 98 308 114 2,193 34,852

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S = SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
	MINUS AMOUNT				
	ANNAPOLIS	102		RAYTHEON CO	
	ANNAPOLIS	19		ARLINGTON	VIRGINIA
	ANNAPOLIS	834			1,114
	ANNAPOLIS	24	20	G T E SYLVANIA INC	
	ANNAPOLIS	12,485			137,815 *
	ANNAPOLIS	1,955			GERMANY
	ANNAPOLIS	17,036			T T PAC IS
	ANNAPOLIS	16,735			CALIFORNIA
	ANNAPOLIS	27,543			ANAHEIM
	ANNAPOLIS	40			LOS ANGELES
	ANNAPOLIS	5,583			MOUNTAIN VIEW
	ANNAPOLIS	185			CALIFORNIA
	ANNAPOLIS	694			MATTHEW TN
	ANNAPOLIS	703			MARYLAND
	ANNAPOLIS	8,105			NEEDHAM
	ANNAPOLIS				MASS
	ANNAPOLIS				NEEDHAM HEIGHT
	ANNAPOLIS				MASS
	ANNAPOLIS				WHITE SANDS MS
	ANNAPOLIS				NEW MEXICO
	ANNAPOLIS				CLAM LAKE
	ANNAPOLIS				WISCONSIN
	ANNAPOLIS				158
14	INTERNATIONAL BUSINESS MACHINE CO	171,341 *	22	NORTHROP CORP	126,405 *
	SAN JOSE	26		HUNTSVILLE	ALABAMA
	WESTLAKE VILLA	372		ANAHEIM	CALIFORNIA
	EGLIN AFB	4,851		HAWTHORNE	CALIFORNIA
	GAITHERSBURG	1,020		LOS ANGELES	102,762
	OWEGO	53,885		LEWISBURG PARK	CALIFORNIA
	YORK TOWN HGTS	61,594		PALOS VERDES E	CALIFORNIA
	HOUSTON	3,710		DES PLAINES	2,003
	ARLINGTON	1,190		ROLLING MEADOW	ILLINOIS
	MANASSAS	4,240		NORWOOD	ILLINOIS
		40,505		ARLINGTON	14,331
					222
16	R C A CORP	163,045 *	23	SUMMA CORP	119,750 *
	BURLINGTON	13,335		CULVER CITY	CALIFORNIA
	CAMDEN	29,698			119,750
	CHERRY HILL	24,126	24	AVCO CORP	118,864 *
	HIGHTSTOWN	745		STRATFORD	CONN
	MOORESTOWN	384		EVERETT	MASS
	PRINCETON	84,508		LOWELL	1,690
	SOMERVILLE	4,761		WILMINGTON	MASS
	WHITE SANDS MS	221			364
	ROME	147	25	AEROJET GENERAL CORP	111,310
	WRIGHT PATTERS	16		AZUSA	CALIFORNIA
	LANCASTER	120		DOWNEY	CALIFORNIA
	SPRINGFIELD	109		FULLERTON	CALIFORNIA
		4,709		NIMBUS	CALIFORNIA
				SACRAMENTO	CALIFORNIA
				PANAMA CITY	FLORIDA
					405
17	WESTINGHOUSE ELECTRIC CORP	160,602 *	26	LOCKHEED CORP	95,859 *
	SUNNYVALE	9,531		BURBANK	CALIFORNIA
	ANNAPOLIS	3,017		ONTARIO	CALIFORNIA
	BALTIMORE	64,176		PALO ALTO	CALIFORNIA
	HUNT VALLEY	11,241		SUNNYVALE	CALIFORNIA
	LIMA	164		MARIETTA	GEORGIA
	ORRVILLE	52		PLAINFIELD	NEW JERSEY
	WRIGHT PATTERS	625			570
	CHESWICK	413	27	INTERNATIONAL TELEPHONE & TEL CORP	92,117 *
	LARGE	152		VAN NUYS	CALIFORNIA
	PITTSBURGH	68,651		FORT WAYNE	INDIANA
	WARMINSTER	80		ROANOK	NEW JERSEY
	WEST MIFFLIN	2,500			1,724
18	VOUGHT CORP	159,913 *	28	THICKOL CORP	92,060 *
	DALLAS	159,998		HUNTSVILLE	ALABAMA
	GRAND PRAIRIE	85		ELKTON	MARYLAND
				BRIGHAM CITY	UTAH
					89,369
19	RAYTHEON CO	158,105 *	29	TEXAS INSTRUMENTS INC	74,863 *
	HUNTSVILLE	321		RIDGECREST	CALIFORNIA
	GOLETA	9,314		AUSTIN	TEXAS
	ANDOVER	4,801		DALLAS	TEXAS
	BEDFORD	56,622		LEWISVILLE	TEXAS
	LEXINGTON	507			98,574
	LOWELL	1,172	30	AUTOMATION INDUSTRIES INC	69,268 *
	NORTHBORO	19		NEW LONDON	CONN
	SUDBURY	20,705		EGLIN AFB	FLORIDA
	WALTHAM	2,889		ORLANDO	FLORIDA
	WAYLAND	42,186		SILVER SPRING	MARYLAND
	EAST PROVIDENC	14		NORFOLK	VIRGINIA
	PORTSMOUTH	18,441			836

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S = SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
31	HARRIS CORP UN KINGDOM	67,827 *		TEXTRON INC	
	FORT WALTON BE FLORIDA	11		WHEATFLD NEW YORK	3,422
	MELBOURNE FLORIDA	1,065		FORT WORTH TEXAS	34,593
	PALM BAY FLORIDA	20,871		HURST TEXAS	100
	ROCHESTER NEW YORK	45,198	40	F M I CORP	54,567 *
		682		SAN JOSE CALIFORNIA	51,067
32	CHRYSLER DEFENSE INC	67,389 *		SANTA CLARA CALIFORNIA	1,221
	CULVER CITY CALIFORNIA	5,516		MINNEAPOLIS MINNESOTA	2,279
	EL SEGUNDO CALIFORNIA	3,947	41	SINGER CO	53,038 *
	CENTER LINE MICHIGAN	24,830		LUKE AFB ARIZONA	1,095
	STERLING HEIGHTS MICHIGAN	37,779		WILLIAMS AFB ARIZONA	1,344
	WARREN MICHIGAN	1,317		BLANDA E CALIFORNIA	17,718
33	SPERRY CORP	66,995 *		SAN DIEGO CALIFORNIA	151
	HUNTSVILLE ALABAMA	2,019		SUNNYVALE CALIFORNIA	247
	PHOENIX ARIZONA	3,515		SHREVEPORT LOUISIANA	49
	SAN DIEGO CALIFORNIA	2,895		WHEELER SPRING MARYLAND	2,359
	VALLEJO CALIFORNIA	761		WILMINGTON FALLS NEW JERSEY	19,151
	CLEARWATER FLORIDA	2,364		WAYNE NEW JERSEY	1,329
	SUDBURY MASS	1,002		BINGHAMTON NEW YORK	8,394
	MINNEAPOLIS MINNESOTA	4		STATE COLLEGE PA	1,201
	ST PAUL MINNESOTA	24*	42	SCIENCE APPLICATIONS INC	51,873 *
	ALBUQUERQUE NEW MEXICO	24		HUNTSVILLE ALABAMA	3,702
	WHITE SANDS MS NEW MEXICO	104		TUCSON ARIZONA	18
	GREAT NECK NEW YORK	12,101		EL SEGUNDO CALIFORNIA	1,189
	SOUTHAMPTON PA	1,872		WAYNE CALIFORNIA	607
	WARMINSTER PA	863		ALBUQUERQUE CALIFORNIA	17,963
	CHARLOTTESVILLE VIRGINIA	540		LOS ANGELES CALIFORNIA	46
	DAHLGREN VIRGINIA	2,313		PALMDALE CALIFORNIA	30
	FAIRFAX VIRGINIA	1,019		PLEASANTON CALIFORNIA	35
	RESTON VIRGINIA	4,223		SAN DIEGO CALIFORNIA	4,427
34	HERCULES INC	65,087 *		SANTA ANA CALIFORNIA	124
	WILMINGTON DELAWARE	14		CO. BRADCO SPRGS COLORADO	152
	EGLIN AFB FLORIDA	346		ENGLEWOOD COLORADO	120
	MCGREGOR TEXAS	1,759		WASHINGTON DC	30
	BACCHUS UTAH	134		FORT WALTON BE FLORIDA	758
	MAGNA UTAH	59,389		ORLANDO FLORIDA	846
	ROCKET CENTER WVA	3,445		PALM BEACH GAR FLORIDA	489
35	GRUMMAN AEROSPACE CORP	64,555 *		STUART FLORIDA	48
	SAN DIEGO CALIFORNIA	100		ATLANTA GEORGIA	698
	WHITE SANDS MS NEW MEXICO	32		BETHESDA MARYLAND	20
	BETHPAGE NEW YORK	64,423		EDGEWOOD MARYLAND	26
36	WILLIAMS INTERNATIONAL CORP	61,576 *		BEDFORD MASS	88
	WALLED LAKE MICHIGAN	61,576		LAS VEGAS NEVADA	62
37	MOTOROLA INC	61,563 *		MERCURY NEVADA	30
	PHOENIX ARIZONA	99		HANOVER NH	50
	SCOTTSDALE ARIZONA	31,561		PRINCETON NEW JERSEY	60
	TEMPE ARIZONA	29,903		ALBUQUERQUE NEW MEXICO	881
38	LITTON SYSTEMS INC	58,901 *		DAYTON OHIO	189
	CANOGA PARK CALIFORNIA	189		WRIGHT PATTERS OHIO	1,568
	SAN CARLOS CALIFORNIA	708		WAYNE PA	546
	SUNNYVALE CALIFORNIA	523		OAK RIDGE TENNESSEE	19
	VAN NUYS CALIFORNIA	44,296		ARLINGTON VIRGINIA	967
	WOODLAND HILLS CALIFORNIA	6,256		MCLEAN VIRGINIA	16,081
	COLLEGE PARK MARYLAND	1,333		NORFOLK VIRGINIA	40
	PASCOGOLA MISS	364	44	TELEDYNE INDUSTRIES INC	45,560 *
	MORRIS PLAINS NEW JERSEY	202		NORTHBRIDGE CALIFORNIA	380
	MELVILLE NEW YORK	5,030		SAN DIEGO CALIFORNIA	32,296
39	TEXTRON INC	56,387 *		MUSKOGON MICHIGAN	4,787
	TUCSON ARIZONA	2,630		WHITE SANDS MS NEW MEXICO	1,292
	YUMA ARIZONA	2,048		TOLEDO OHIO	5,293
	BELMONT CALIFORNIA	254		GARLAND TEXAS	857
	VALENCIA CALIFORNIA	180		ALEXANDRIA VIRGINIA	655
	CHESHIRE CONN	125	45	CALSPAN CORP	44,356 *
	EGLIN AFB FLORIDA	1,214		EDWARDS AFB CALIFORNIA	914
	PANAMA CITY FLORIDA	5,300		WHITE SANDS MS NEW MEXICO	1,117
	NEW ORLEANS LOUISIANA	1,206		BUFFALO NEW YORK	13,060
	BUFFALO NEW YORK	5,315		DAYTON OHIO	341
				WRIGHT PATTERS OHIO	3,867
				ARNOLD EDC TENNESSEE	25,057

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
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**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
46	MAGNAVOX GOVT & INDUSTRIAL ELEC CO TORRANCE CALIFORNIA FORT WAYNE INDIANA MAHWAH NEW JERSEY MONTVALE NEW JERSEY FALLS CHURCH VIRGINIA	38,979 * 31,223 4,459 2,202 50 1,045	60	AMEX SYSTEMS INC HAWTHORNE CALIFORNIA SAN DIEGO CALIFORNIA	S 27,083 * 72 27,011
47	B D M CORP HUNTSVILLE ALABAMA WASHINGTON DC NELLIS AFB NEVADA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO WHITE SANDS MS NEW MEXICO WRIGHT PATTERS OHIO FORT LEE VIRGINIA MCLEAN VIRGINIA NORFOLK VIRGINIA	36,635 * 1,406 11 2,171 6,586 2,599 681 201 72 20,522 2,386	61	HAZELTINE CORP BRAINTREE MASS GREENLAWN NEW YORK LONG ISLAND CI NEW YORK	26,934 * 2,029 24,482 423
49	A A I CORP BALTIMORE MARYLAND COCKEYSVILLE MARYLAND	35,143 * 2,115 33,028	62	FORD AEROSPACE & COMMUNICATIONS IRVINE CALIFORNIA NEWPORT BEACH CALIFORNIA PALO ALTO CALIFORNIA SUNNYVALE CALIFORNIA COLORADO SPGS COLORADO	26,909 * 136 12,925 9,031 4,592 225
50	SANDERS ASSOCIATES INC MANCHESTER NH MERRIMACK NH NASHUA NH	34,897 * 267 7,695 26,935	63	WESTERN ELECTRIC CO INC WHIPPANY NEW JERSEY GREENSBORO NCAR WINSTON SALEM NCAR	23,427 * 14,286 7,391 1,750
51	E S L INC GERMANY KOREA SUNNYVALE CALIFORNIA	34,355 * 5 16 34,334	64	LOGICON INC SAN DIEGO CALIFORNIA SAN PEDRO CALIFORNIA VALLEJO CALIFORNIA LANHAM MARYLAND HANSCOM AFB MASS LEXINGTON MASS WRIGHT PATTERS OHIO	22,675 * 2,968 13,321 536 955 143 1,063 3,689
52	KENTRON HAWAII LTD EDWARDS AFB CALIFORNIA HILL AFB UTAH	33,678 * 22,976 10,717 15-	65	R & D ASSOCIATES LOS ANGELES CALIFORNIA MARINA DEL REY CALIFORNIA KIRTLAND AFB NEW MEXICO ARLINGTON VIRGINIA	S 21,508 * 322 15,911 2,494 2,781
54	GLOBAL ASSOCIATES T T PAC IS	32,933 * 32,933	66	BENDIX CORP NORTH HOLLYWOOD CALIFORNIA SYLMAR CALIFORNIA DAVENPORT IOWA BALTIMORE MARYLAND TOWSON MARYLAND ANN ARBOR MICHIGAN OAK PARK MICHIGAN EATONTOWN NEW JERSEY SPRING LAKE HT NEW JERSEY TERREBORO NEW JERSEY	21,112 * 5,020 194 799 8,587 3,903 264 98 92 701 1,454
55	SVERDRUP TECHNOLOGY INC ARNOLD EDC TENNESSEE	33,444 * 30,444	67	I T T & WESTINGHOUSE JV NUTLEY NEW JERSEY	20,790 * 20,790
56	COMPUTER SCIENCES CORP HUNTSVILLE ALABAMA LOMPOC CALIFORNIA POINT MUGU CALIFORNIA REDONDO BEACH CALIFORNIA SAN DIEGO CALIFORNIA FORT WALTON BE FLORIDA ORLANDO FLORIDA BEDFORD MASS FORT MONMOUTH NEW JERSEY MOORESTOWN NEW JERSEY ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO FALLS CHURCH VIRGINIA	30,329 * 3,957 2,210 40 1,936 2,219 12 550 155 2,577 7,793 765 194 7,921	69	MCDONNELL DOUGLAS CORP HUNTINGTON BEA CALIFORNIA LONG BEACH CALIFORNIA ST LOUIS PARK MINNESOTA BERKELEY MISSOURI ST CHARLES MISSOURI ST LOUIS MISSOURI KIRTLAND AFB NEW MEXICO	19,899 * 98,538 952 38 407 1,238 81,544 270
58	GENERAL MOTORS CORP GOLETA CALIFORNIA INDIANAPOLIS INDIANA SPEEDWAY INDIANA OAK CREEK WISCONSIN	27,885 * 6,707 21,011 132 35	70	SYSTEMS & APPLIED SCIENCES CORP HUNTSVILLE ALABAMA ANAHEIM CALIFORNIA RIVERDALE MARYLAND HANSCOM AFB MASS LEXINGTON MASS DAYTON OHIO WRIGHT PATTERS OHIO	S 19,722 * 87 1,280 17,135 736 80 319 85
59	MAGNAVOX CO TORRANCE CALIFORNIA FORT WAYNE INDIANA MAHWAH NEW JERSEY PHILADELPHIA PA	27,760 * 28 27,637 25 70	71	G T E PRODUCTS CORP MOUNTAIN VIEW CALIFORNIA DANVERS MASS NEEDHAM MASS NEEDHAM HEIGHT MASS	19,353 * 2,698 2,885 170 8,075 5,525

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**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
73	FUGRO NATIONAL INC LONG BEACH CALIFORNIA	S 18,081 *	98	CONTROL DATA CORP SAN DIEGO CALIFORNIA	850
75	SYSTEM DEVELOPMENT CORP HUNTSVILLE ALABAMA	17,424 *		MINNEAPOLIS MINNESOTA	699
	SANTA MONICA CALIFORNIA	4,084		FORT MONMOUTH NEW JERSEY	634
	SUNNYVALE CALIFORNIA	2,563		SHREWSBURY NEW JERSEY	355
	EATONTOWN NEW JERSEY	6,019		FORT BELVOIR VIRGINIA	505
	FORT MONMOUTH NEW JERSEY	462			20
	WEST LONG BRAN NEW JERSEY	84	99	MAXWELL LABORATORIES INC SAN DIEGO CALIFORNIA	S 10,513 *
	DAYTON OHIO	210		KIRTLAND AFB NEW MEXICO	10,082
	MCLEAN VIRGINIA	686			431
80	EMERSON ELECTRIC CO ST LOUIS MISSOURI	16,118 *	100	BENDIX FIELD ENGINEERING CORP WASHINGTON DC	10,495 *
		16,118		COLUMBIA MARYLAND	15
81	GENERAL RESEARCH CORP HUNTSVILLE ALABAMA	16,015 *		MERCURY NEVADA	10,052
	SANTA BARBARA CALIFORNIA	2,839	101	PHYSICS INTERNATIONAL CO SAN LEANDRO CALIFORNIA	10,428
	WASHINGTON DC	9,011			1,123 *
	FORT WALTON BE FLORIDA	79			1,123
	MCLEAN VIRGINIA	2,538	102	BUNKER RAMO CORP WESTLAKE VILLAGE CALIFORNIA	10,028 *
82	DYNALECTRON CORP ALBUQUERQUE NEW MEXICO	15,219 *		GRIFFISS AFB NEW YORK	8,856
	HOLLOMAN AFB NEW MEXICO	478		LANGLEY AFB VIRGINIA	1,822
	KIRTLAND AFB NEW MEXICO	5,775			350
	WRIGHT PATTERS OHIO	8,635	103	SOFTTECH INC WALTHAM MASS	S 10,935 *
83	HENNINGSTON DURHAM RICHARDSON SANTA BARBARA CALIFORNIA	15,214 *		GRIFFISS AFB NEW YORK	8,903
		15,214		DAYTON OHIO	174
84	TELEDYNE BROWN ENGINEERING HUNTSVILLE ALABAMA	15,157 *		WRIGHT PATTERS OHIO	206
	COSTA MESA CALIFORNIA	14,713	104	E G & G INC ROCKVILLE MARYLAND	10,898 *
	FORT WALTON BE FLORIDA	400		SALEM MASS	6,817
		44		WALTHAM MASS	333
85	FAIRCHILD INDUSTRIES INC EDWARDS AFB CALIFORNIA	15,154 *		ALBUQUERQUE NEW MEXICO	62
	VANDENBERG AFB CALIFORNIA	3,582		KIRTLAND AFB NEW MEXICO	526
	GERMANTOWN MARYLAND	225		ARLINGTON VIRGINIA	107
	FARMINGDALE NEW YORK	1,601		DAHLGREN VIRGINIA	34
	SYOSSET NEW YORK	9,646	105	PARSONS RALPH M CO INC PASADENA CALIFORNIA	3,019
		100			10,694 *
89	ANALYTIC SCIENCES CORP READING MASS	S 14,659 *	106	GOULD INC EL MONTE CALIFORNIA	10,682 *
	ARLINGTON VIRGINIA	14,142		OXNARD CALIFORNIA	84
	MCLEAN VIRGINIA	423		ROLLING MEADOW ILLINOIS	20
		94		GLEN BURNIE MARYLAND	379
91	SYSTEMS RESEARCH LABORATORIES INC DAYTON OHIO	14,257 *		CLEVELAND OHIO	9,026
	WRIGHT PATTERS OHIO	3,424		LANGHORNE PA	266
	BROOKS AFB TEXAS	10,338	107	CINCINNATI ELECTRONICS CORP CINCINNATI OHIO	907
	FALLS CHURCH VIRGINIA	345			10,641 *
		150	108	TRACOR INC SAN DIEGO CALIFORNIA	10,520 *
92	PLANNING RESEARCH CORP CAMP PENDLETON CALIFORNIA	13,708 *		ROCKVILLE MARYLAND	35
	WASHINGTON DC	1,277		AUSTIN TEXAS	4,666
	BEDFORD MASS	53	109	COMMAND CONTROL & COMMUNICATION LOMITA CALIFORNIA	S 10,497 *
	OFFUTT AFB NEBRASKA	831		TORRANCE CALIFORNIA	155
	FORT MONMOUTH NEW JERSEY	4,613			10,342
	WRIGHT PATTERS OHIO	3,425	110	BOLT BERANEK & NEWMAN INC CANOGA PARK CALIFORNIA	10,403 *
	MCLEAN VIRGINIA	830		SAN DIEGO CALIFORNIA	45
95	GOODYEAR AEROSPACE CORP LITCHFIELD PAR ARIZONA	12,754 *		CAMBRIDGE MASS	237
	AKRON OHIO	5,735		WALTHAM MASS	8,830
	FORT BELVOIR VIRGINIA	6,969		ARLINGTON VIRGINIA	112
		50			1,179
96	NORDEN SYSTEMS INC NORWALK CONN	12,656 *			
	MELVILLE NEW YORK	8,000			
		4,656			

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(Continued)**

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111	KAMAN SCIENCES CORP SANTA BARBARA CALIFORNIA TWENTYNINE PAL CALIFORNIA COLORADO SPGS COLORADO BURLINGTON MASS ARLINGTON VIRGINIA	10,310 * 195 134 8,281 1,670 30	125	BRUNSWICK CORP COSTA MESA CALIFORNIA DE LAND FLORIDA LINCOLN NEBRASKA WHITE SANDS MS NEW MEXICO WILLARD OHIO MARION VIRGINIA	8,172 * 4,132 2,936 538 65 53 448
112	AVCO EVERETT RESEARCH LABORATORY MAUI HAWAII EVERETT MASS SOMERVILLE MASS	10,121 * 2,541 7,530 50	126	O R I INC TORRANCE CALIFORNIA WASHINGTON DC SAINT INIGOES MARYLAND SILVER SPRING MARYLAND	S 8,168 * 46 257 70 7,795
113	MISSION RESEARCH CORP SAN DIEGO CALIFORNIA SANTA BARBARA CALIFORNIA COLORADO SPGS COLORADO ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO ALEXANDRIA VIRGINIA	S 10,080 * 1,570 6,138 174 1,334 633 231	127	LORAL CORP BRONX NEW YORK YONKERS NEW YORK	7,716 * 74 7,642
114	AMERICAN HOME PRODUCTS CORP NEW YORK NEW YORK	10,000 * 10,000	128	BOOZ ALLEN & HAMILTON INC BETHESDA MARYLAND HANSCOM AFB MASS NEW SHREWSBURY NEW JERSEY PHILADELPHIA PA	7,690 * 3,852 1,834 1,726 278
115	SYSTEM PLANNING CORP HUNTSVILLE ALABAMA ARLINGTON VIRGINIA	S 9,668 * 30 9,638	129	ENSCO INC INDIAN HARBOUR FLORIDA ALEXANDRIA VIRGINIA SPRINGFIELD VIRGINIA	S 7,635 * 2,105 175 5,355
116	ARES INC PORT CLINTON OHIO	S 9,389 * 9,389	130	ANALYTICAL SYSTEMS ENGR CORP BEDFORD MASS BURLINGTON MASS HANSCOM AFB MASS TINTON FALLS NEW JERSEY ARLINGTON VIRGINIA FALLS CHURCH VIRGINIA	S 7,502 * 3,183 3,589 51 126 259 294
117	HANSON R A CO INC SPOKANE WASHINGTON	S 9,384 * 9,384	131	EDO CORP COLLEGE POINT NEW YORK	7,437 * 7,437
118	JAYCOR DEL MAR CALIFORNIA SAN DIEGO CALIFORNIA SANTA BARBARA CALIFORNIA BOSTON MASS WOBURN MASS ALBUQUERQUE NEW MEXICO ALEXANDRIA VIRGINIA MCLEAN VIRGINIA	S 8,980 * 4,941 1,236 50 50 86 22 2,442 153	133	VARIAN ASSOCIATES PALO ALTO CALIFORNIA SAN CARLOS CALIFORNIA CHEVERLY MARYLAND BEVERLY MASS GLOUCESTER MASS	7,379 * 5,193 99 85 537 1,465
119	GARRETT CORP PHOENIX ARIZONA LOS ANGELES CALIFORNIA TORRANCE CALIFORNIA BELMAR NEW JERSEY	8,876 * 6,494 16 2,293 73	134	XEROX ELECTRO OPTICAL SYSTEMS INC PASADENA CALIFORNIA	7,357 * 7,357
120	EATON CUTLER HAMMER DEER PARK NEW YORK MELVILLE NEW YORK	8,766 * 8,577 189	136	CURTISS WRIGHT CORP WOOD RIDGE NEW JERSEY	7,246 * 7,246
122	ITEK CORP SUNNYVALE CALIFORNIA LEXINGTON MASS	8,498 * 1,266 7,232	139	CHRYSLER CORP HUNTSVILLE ALABAMA NEW ORLEANS LOUISIANA SLIDELL LOUISIANA DETROIT MICHIGAN STERLING HEIGH MICHIGAN LITTLE FALLS NEW JERSEY	8,711 * 751 221 15 173 5,693 142-
123	PERKIN ELMER CORP HAYWARD CALIFORNIA POMONA CALIFORNIA DANBURY CONN NORWALK CONN RIDGEFIELD CONN WILTON CONN	8,408 * 20 183 2,700 265 152 5,088	141	I T T GILFILLAN INC SAN DIEGO CALIFORNIA VAN NUYS CALIFORNIA	6,534 * 105- 6,639
124	E SYSTEMS INC ST PETERSBURG FLORIDA GARLAND TEXAS OPPEVILLE TEXAS FURCH VIRGINIA	8,184 * 4,256 340 923 2,665	143	INTERSTATE ELECTRONICS CORP ANAHEIM CALIFORNIA WARMINSTER PA	6,180 * 6,112 68
			145	LITTLE ARTHUR D INC CAMBRIDGE MASS	6,148 * 6,148

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(Continued)**

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146	H R B SINGER INC WRIGHT PATTERS OHIO STATE COLLEGE PA	6,102 * 104 5,998	170	A M GENERAL CORP DETROIT MICHIGAN	4,404 * 4,404
147	EX CELL O CORP WARREN MICHIGAN	6,052 * 6,052	171	ANALYTICS INC S FORT WALTON BE FLORIDA BLOOMINGTON INDIANA NEW SHREWSBURY NEW JERSEY TINTON FALLS NEW JERSEY WILLOW GROVE PA MCLEAN VIRGINIA	4,287 * 81 105 832 35 3,214 20
149	BOEING VERTOL CO PHILADELPHIA PA RIDLEY PA RIDLEY PARK PA FORT EUSTIS VIRGINIA	5,988 * 3,590 72 2,230 96	172	STEARNS ROGER INC VANDENBERG AFB CALIFORNIA CAPE CANAVERAL FLORIDA	4,265 * 4,250 15
150	SYSTEMS SCIENCE & SOFTWARE S LA JOLLA CALIFORNIA SAN DIEGO CALIFORNIA ALBUQUERQUE NEW MEXICO ALEXANDRIA VIRGINIA	5,849 * 5,047 675 102 25	173	VECTOR RESEARCH INC S ANN ARBOR MICHIGAN	4,257 * 4,257
151	PIPER AIRCRAFT CORP LAKELAND FLORIDA	5,800 * 5,800	174	GENERAL DEFENSE CORP WHARTON NEW JERSEY RED LION PA	4,244 * 2,338 1,906
152	ARINC RESEARCH CORP SAN DIEGO CALIFORNIA SANTA ANA CALIFORNIA ANNAPOLIS MARYLAND	5,522 * 3,050 1,822 650	175	LINKABIT CORP S SAN DIEGO CALIFORNIA	4,244 * 4,244
153	TECHNOLOGY SERVICE CORP SANTA MONICA CALIFORNIA SILVER SPRING MARYLAND	5,498 * 4,125 1,373	177	DYNAMICS RESEARCH CORP WILMINGTON MASS	4,150 * 4,150
157	PATTERN ANALYSIS & RECOGNITION CO S PETERSON AFB COLORADO ROME NEW YORK	5,296 * 850 4,446	178	LEAR SIEGLER INC EGLIN AFB FLORIDA GRAND RAPIDS MICHIGAN MAPLE HEIGHTS OHIO	4,099 * 1,226 2,789 84
158	MAGNAVOX ADVANCED PROD & SYS CO TORRANCE CALIFORNIA	5,269 * 5,269	180	ANALYSIS & TECHNOLOGY INC S STONINGTON CONN NORFOLK VIRGINIA	4,079 * 3,998 81
160	STENCHEL AERO ENGINEERING CORP ARDEN NCAR ASHEVILLE NCAR	5,247 * 393 4,854	181	CUBIC CORP SAN DIEGO CALIFORNIA	4,078 * 4,078
161	ELECTRONIC WARFARE ASSOCIATES S MCLEAN VIRGINIA	5,231 * 5,231	182	POTOMAC RESEARCH INC S WASHINGTON DC PANAMA CITY FLORIDA BAILEYS CROSSR VIRGINIA MCLEAN VIRGINIA	4,078 * 97 75 344 3,562
162	ATLANTIC RESEARCH CORP WHITE SANDS MS NEW MEXICO ROME NEW YORK ALEXANDRIA VIRGINIA GAINESVILLE VIRGINIA	5,230 * 242 52 2,886 2,050	183	TETRA TECH INC PASADENA CALIFORNIA SAN DIEGO CALIFORNIA WASHINGTON DC ARLINGTON VIRGINIA	4,063 * 1,212 2,121 190 540
163	HARSCO CORP YORK PA	5,214 * 5,214	184	CHAMBERLAIN MFG CORP WATERLOO IOWA	4,049 * 4,049
164	SYSTEMS CONSULTANTS INC SAN DIEGO CALIFORNIA WASHINGTON DC MIDDLETOWN RI	5,085 * 4,232 680 173	188	NICHOLS RESEARCH CORP S HUNTSVILLE ALABAMA	3,878 * 3,878
165	SYSTEMS CONTROL INC S PALO ALTO CALIFORNIA	5,036 * 5,036	189	T A D COMMUNICATIONS CO NUTLEY NEW JERSEY	3,875 * 3,875
166	B D M SERVICES CO MCLEAN VIRGINIA	4,879 * 4,879	190	BETAC CORP S BURLINGTON MASS ARLINGTON VIRGINIA	3,852 * 84 3,768
168	NEWPORT NEWS SHIPBLD & DRY DOCK CO NEWPORT NEWS VIRGINIA	4,547 * 4,547	192	I R T CORP S SAN DIEGO CALIFORNIA WASHINGTON DC MCLEAN VIRGINIA	3,847 * 3,516 183 148
169	COMPTEX RESEARCH INC S BUFFALO NEW YORK NORFOLK VIRGINIA	4,422 * 58 4,364			

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(Continued)**

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193	DECISIONS & DESIGNS INC WASHINGTON DC MCLEAN VIRGINIA	S 3,804 + 35 3,769	216	SCHAFFER W J ASSOCIATES INC LA JOLLA CALIFORNIA WAKEFIELD MASS ARLINGTON VIRGINIA	S 3,212 + 61 2,997 154
194	EATON CORP DEER PARK NEW YORK FARMINGDALE NEW YORK MELLENVILLE NEW YORK MELVILLE NEW YORK	3,773 + 3,344 50 65 314	217	TELEDYNE C A E TOLEDO OHIO	3,212 + 3,212
195	ENGINEERING RESEARCH ASSOCIATES MCLEAN VIRGINIA RESTON VIRGINIA	S 3,747 + 1,253 2,494	218	MARQUARDT CO VAN NUYS CALIFORNIA	3,200 + 3,200
196	SCOTT AVIATION SIERRA PRODUCTS INC MONROVIA CALIFORNIA SIERRA MADRE CALIFORNIA	3,746 + 2,139 1,607	219	V S E CORP OXNARD CALIFORNIA ALEXANDRIA VIRGINIA ARLINGTON VIRGINIA	3,176 + 1,378 1,758 40
197	STANFORD TELECOMMUNICATIONS INC EL SEGUNDO CALIFORNIA SUNNYVALE CALIFORNIA	S 3,690 + 49 3,641	220	INTERMETRICS INC LONG BEACH CALIFORNIA CAMBRIDGE MASS WRIGHT PATTERS OHIO WARMINSTER PA	S 3,112 + 1,280 1,510 16 306
198	PACCAR INC RENTON WASHINGTON	3,544 + 3,544	222	D B A SYSTEMS INC MELBOURNE FLORIDA	S 3,096 + 3,096
200	SANDERS ASSOCS & NORTHROP CORP JV NASHUA NH	3,501 + 3,501	223	HYCOR INC WOBURN MASS	S 3,084 + 3,084
202	FAIRCHILD CAMERA & INSTRUMENT CORP PALO ALTO CALIFORNIA SYOSSET NEW YORK HORSHAM PA	3,447 + 33 948 2,466	224	DYNETICS INC HUNTSVILLE ALABAMA	S 3,069 + 3,069
204	WHITTAKER CORP CHATSWORTH CALIFORNIA NORTH HOLLYWOOD CALIFORNIA	3,428 + 3,308 120	225	KETRON INC PHILADELPHIA PA WAYNE PA ARLINGTON VIRGINIA	S 3,020 + 117 821 2,082
205	ELECTROSPACE SYSTEMS INC DAYTON OHIO RICHARDSON TEXAS	S 3,406 + 20 3,386	227	FLIGHT SYSTEMS INC MOJAVE CALIFORNIA NEWPORT BEACH CALIFORNIA WHITE SANDS MS NEW MEXICO	S 2,953 + 90 1,436 427
206	UNITED SPACE BOOSTERS INC VANDENBERG AFB CALIFORNIA	3,400 + 3,400	230	PLANNING SYSTEMS INC MCLEAN VIRGINIA	S 2,863 + 2,863
208	ARGO SYSTEMS INC PALO ALTO CALIFORNIA SUNNYVALE CALIFORNIA	S 3,369 + 1,489 1,880	232	ACUREX CORP MONROVIA CALIFORNIA MOUNTAIN VIEW CALIFORNIA DAYTON OHIO	S 2,955 + 112 2,399 284
209	SPARTON CORP JACKSON MICHIGAN	3,356 + 3,356	234	SPEARS ASSOCIATES INC NEWTON MASS NORWOOD MASS	S 2,902 + 23 2,805
210	QUEST RESEARCH CORP MCLEAN VIRGINIA	S 3,324 + 3,324	235	PRESEARCH INC ARLINGTON VIRGINIA	S 2,800 + 2,800
211	ADVANCED TECHNOLOGY INC SAN DIEGO CALIFORNIA FORT MONMOUTH NEW JERSEY MCLEAN VIRGINIA QUANTICO VIRGINIA	S 3,309 + 65 47 2,718 479	238	XEROX CORP PALO ALTO CALIFORNIA PASADENA CALIFORNIA WEBSTER NEW YORK	2,838 + 87 2,404 44
212	DEVELOPMENTAL SCIENCES INC CITY OF INDUST CALIFORNIA	S 3,272 + 3,272	239	MANTECH INTERNATIONAL CORP HUNTSVILLE ALABAMA SAN DIEGO CALIFORNIA LIVINGSTON NEW JERSEY DAYTON OHIO FORT WORTH TEXAS ARLINGTON VIRGINIA MCLEAN VIRGINIA NORFOLK VIRGINIA	S 2,655 + 675 811 271 967 7 48 25 96
213	BURROUGHS CORP PAOLI PA	3,263 + 3,263			
214	PACIFIC SIERRA RESEARCH CORP SANTA MONICA CALIFORNIA FAIRBORN OHIO	S 3,239 + 3,215 24			

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(Continued)**

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240	SIGNATRON INC LEWISTON MASS	S 2,611 *	267	SYSTEMATICS GENERAL CORP FALLS CHURCH VIRGINIA	S 2,052 *
244	SANTA BARBARA RESEARCH CENTER GOLETA CALIFORNIA	2,572 *	268	TRIAD MICROSYSTEMS INC HUNTSVILLE ALABAMA SANTA ANA CALIFORNIA	S 2,050 * 1,832 218
245	LOCKHEED SHIPBUILDING CONSTRUCTION SEATTLE WASHINGTON	2,571 *	269	MATHEMATICAL SCIENCE NORTHWEST INC BELLEVUE WASHINGTON	S 2,046 *
246	O A O CORP HUNTSVILLE ALABAMA EL SEGUNDO CALIFORNIA BELTSVILLE MARYLAND FORT BELVOIR VIRGINIA	S 2,571 * 106 1,330 1,105 30	270	TECHNITROL INC PHILADELPHIA PA	2,038 * 2,038
247	CUMMINS ENGINE CO INC COLUMBUS INDIANA	2,546 * 2,546	271	ATLANTIC ANALYSIS CORP NORFOLK VIRGINIA	S 2,025 *
249	SEMCOR INC MOORESTOWN NEW JERSEY ARLINGTON VIRGINIA	S 2,402 * 2,278 124	272	EFFECTS TECHNOLOGY INC SANTA BARBARA CALIFORNIA	2,024 * 2,024
250	GENERAL OFFSHORE CORP FORT LAUDERDAL FLORIDA	S 2,383 * 2,383	273	SYNECTICS CORP ROME NEW YORK FAIRFAX VIRGINIA	S 2,009 * 256 1,753
251	MAN TECH CORP ANNAPOLIS MARYLAND ROCKVILLE MARYLAND LIVINGSTON NEW JERSEY ALEXANDRIA VIRGINIA ARLINGTON VIRGINIA NORFOLK VIRGINIA	S 2,366 * 328 909 999 25 487 8	274	SPACE VECTOR CORP NORTHRIDGE CALIFORNIA	S 1,989 * 1,989
252	COMPUTER CORP OF AMERICA CAMBRIDGE MASS	S 2,363 * 2,363	275	SPACE DATA CORP TEMPE ARIZONA	S 1,980 * 980
255	DIGITAL EQUIPMENT CORP COSTA MESA CALIFORNIA CHAMPAIGN ILLINOIS LANHAM MARYLAND MAYNARD MASS SALEM NH	2,317 * 25 2,317 25 25 25	276	ADVANCED ELECTRONICS CORP ANAPOLIS MARYLAND	S 96 * 96
257	SYNOPTIC SYSTEMS CORP FALLS CHURCH VIRGINIA	2,299 * 2,299	277	TRANS SYSTEMS INC ROCKVILLE MARYLAND NORTH ANDOVER MASS	944 * 79 161
258	SONAR PART INC CHICAGO ILLINOIS	2,277 * 2,277	278	ASSTEC ASSOCIATES INC MENDOTA ILLINOIS NEWTON MASS	911 * 44 161
261	ANALYSIS & COMPUTER SYSTEMS INC EDMUNDS AFB TEXAS BEDFORD MASS	2,217 * 64 2,153	279	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899
262	GENERAL ATROPHICS CORP PHILADELPHIA PA	2,197 * 2,197	280	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899
263	ARA TECHNOLOGY ROCKVILLE MARYLAND	2,197 * 2,197	281	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899
264	PERCEPTRONICS INC WOODBRIDGE CALIFORNIA EUGENE OREGON ARLINGTON VIRGINIA	2,197 * 1,197 1,000 0	282	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899
265	PERCEPTION PRODUCTS INC SANTA ANA CALIFORNIA	2,197 * 2,197	283	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899
266	PERCEPTION PRODUCTS INC SANTA ANA CALIFORNIA	2,197 * 2,197	284	CONCEPTS INC SANTA ANA CALIFORNIA SANTA ANA CALIFORNIA	899 * 899 899

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294	C T E C FALLS CHURCH VIRGINIA MCLEAN VIRGINIA	\$ 1,781 * 1,013 768	330	HUGHES RESEARCH LABORATORIES MALIBU CALIFORNIA	1,550 * 1,550
296	PROTOTYPE DEVELOPMENT INC SANTA ANA CALIFORNIA	\$ 1,755 * 1,755	331	B K DYNAMICS INC WASHINGTON DC GAITHERSBURG MARYLAND ROCKVILLE MARYLAND	\$ 1,545 * 80 50 1,415
297	UNIVERSAL ENERGY SYSTEMS INC DAYTON OHIO WRIGHT PATTERS OHIO	\$ 1,754 * 1,522 232	332	SYSTEMS ENGINEERING LABORATORIES WILLIAMS AFB ARIZONA FORT LAUDERDAL FLORIDA RIVERDALE MARYLAND	1,536 * 1,034 396 106
298	FIGGIE INTERNATIONAL INC SIERRA MADRE CALIFORNIA HUNTINGTON STA NEW YORK	1,752 * 60 1,692	333	CADRE CORP DORAVILLE GEORGIA	\$ 1,527 * 1,527
300	TRACOR MARINE INC PORT EVERGLADE VIRGIN IS AUSTIN FLORIDA TEXAS	1,745 * 1,387 240 118	334	RAYCOMM INDUSTRIES INC FORT MONMOUTH NEW JERSEY	\$ 1,521 * 1,521
302	SYSTEMS ARCHITECTS INC RANDOLPH MAINE RANDOLPH MASS WRIGHT PATTERS OHIO	\$ 1,723 * 114 1,359 250	336	TELEDYNE GEOTECH GARLAND TEXAS	1,517 * 1,517
305	INTERNATIONAL LASER SYSTEMS INC ORLANDO FLORIDA KIRTLAND AFB NEW MEXICO	1,692 * 432 1,260	338	VEDA INC DAYTON OHIO SOUTHAMPTON PA ARLINGTON VIRGINIA	\$ 1,505 * 562 49 894
306	BELL & HOWELL CO PASADENA CALIFORNIA CHICAGO ILLINOIS	1,691 * 594 1,097	339	MARTIN & STERN INC MANHATTAN BEAC CALIFORNIA	\$ 1,497 * 1,497
307	SLEDRUP TECHNOLOGY INC ARNOLD EDC TENNESSEE	1,689 * 1,689	340	XONICS INC LOS ANGELES CALIFORNIA VAN NUYS CALIFORNIA	1,492 * 179 1,313
308	WATER SYSTEMS INC BURLINGTON MASS FORT WASHINGTON PA	\$ 1,686 * 488 1,198	341	FIBER MATERIALS INC BIDDEFORD MAINE	\$ 1,490 * 1,490
309	LANE RESEARCH & APPL CORP SUNNDALE CALIFORNIA	\$ 1,673 * 1,673	342	INTERNATIONAL COMPUTING CO BETHESDA MARYLAND DAYTON OHIO	\$ 1,437 * 237 1,200
310	RESEARCH CORP GAITHERSBURG MARYLAND	\$ 1,671 * 1,671	343	WASHINGTON PATROL SERVICE INC T T PAC IS	\$ 1,424 * 1,424
311	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,665 * 408 257	344	VARO INC GARLAND TEXAS	1,421 * 1,421
312	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,647 * 1,647	345	AERONAUTICAL RESEARCH ASSOCIATES PORT REPUBLIC NEW JERSEY PRINCETON NEW JERSEY	\$ 1,398 * 80 1,318
313	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,637 * 1,637	346	CORNING GLASS WORKS CANTON NEW YORK CORNING NEW YORK	1,394 * 1,001 393
314	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,627 * 1,627	347	BROWN DAYTON T INC BOHEMIA NEW YORK	\$ 1,389 * 1,389
315	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,606 * 1,606	348	ANACAPA SCIENCES INC DOTHAN ALABAMA SANTA BARBARA CALIFORNIA	\$ 1,388 * 710 678
316	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,587 * 1,587	349	VERAC INC SAN DIEGO CALIFORNIA	\$ 1,388 * 1,388
317	RESEARCH CORP ARLINGTON PA SUNNDALE PA	\$ 1,567 * 1,567	350	TECHNOLOGY INC DAYTON OHIO BROOKS AFB TEXAS SAN ANTONIO TEXAS	\$ 1,381 * 697 521 183

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
352	GLOBAL MARINE DEVELOPMENT INC NEWPORT BEACH CALIFORNIA	1,353 * 1,353	377	DIKEWOOD INDUSTRIES INC ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO	S 1,211 * 313 898
354	AERODYNE RESEARCH INC BEDFORD MASS	S 1,338 * 1,338	378	BOOZ ALLEN APPLIED RESEARCH INC BETHESDA MARYLAND	1,208 * 1,208
356	AUERBACH ASSOCIATES INC ARLINGTON VIRGINIA	S 1,332 * 1,332	379	ORLANDO TECHNOLOGY INC ORLANDO FLORIDA SHALIMAR FLORIDA	S 1,203 * 692 511
357	TELEPHONICS HUNTINGTON NEW YORK	1,332 * 1,332	381	QUESTRON CORP EL SEGUNDO CALIFORNIA SAN DIEGO CALIFORNIA	S 1,194 * 918 276
358	PACIFICA TECHNOLOGY DEL MAR CALIFORNIA SAN DIEGO CALIFORNIA	S 1,307 * 758 549	382	BOEING COMPUTER SERVICES INC VIENNA VIRGINIA SEATTLE WASHINGTON	1,188 * 1,109 79
359	FIRESTONE TIRE & RUBBER CO AKRON OHIO	1,306 * 1,306	383	CAS INC HUNTSVILLE ALABAMA	S 1,182 * 1,182
360	AUSTIN RESEARCH ASSOCIATES AUSTIN TEXAS	S 1,300 * 1,300	384	INTER SYSTEMS INC FORT MONMOUTH NEW JERSEY	S 1,170 * 1,170
361	DECISION SCIENCE APPLICATIONS INC ARLINGTON VIRGINIA	S 1,297 * 1,297	385	ENERGY RESEARCH CORP BETHEL CONN DANBURY CONN	1,166 * 794 372
363	VISIDYNE INC BURLINGTON MASS	S 1,292 * 1,292	386	XETRON CORP CINCINNATI OHIO	S 1,165 * 1,165
364	APPLIED SCIENCE ASSOCIATES INC APEX NCAR VALENCIA PA FORT BLISS TEXAS	S 1,276 * 20 912 344	388	OPTI METRICS INC ANN ARBOR MICHIGAN WHITE SANDS MS NEW MEXICO	S 1,155 * 30 1,125
365	UNIFIED INDUSTRIES INC ALEXANDRIA VIRGINIA	S 1,276 * 1,276	390	NETWORK ANALYSIS CORP GREAT NECK NEW YORK	1,145 * 1,145
366	CALCULON CORP TINTON FALLS NEW JERSEY PHILADELPHIA PA ARLINGTON VIRGINIA	S 1,270 * 1,089 46 135	391	CONAX CORP BUFFALO NEW YORK	S 1,142 * 1,142
367	ANALYTX ELECTRONICS SYSTEMS INC HUDSON NH NASHUA NH	S 1,257 * 1,148 109	393	LOCUS INC WASHINGTON DC BOALSBURG PA STATE COLLEGE PA	S 1,117 * 232 744 141
369	SIERRA RESEARCH CORP BUFFALO NEW YORK	1,251 * 1,251	394	SCIPAR INC BUFFALO NEW YORK	S 1,115 * 1,115
370	REDEL ENGINEERING CORP ARCADIA CALIFORNIA	S 1,248 * 1,248	395	DIGITAL COMMUNICATIONS CORP GAITHERSBURG MARYLAND GERMANTOWN MARYLAND	1,112 * 692 420
371	C N R INC NEEDHAM MASS NEEDHAM HEIGHT MASS	S 1,243 * 240 1,003	396	ORINCON CORP LA JOLLA CALIFORNIA	S 1,104 * 1,104
372	S C I SYSTEMS INC HUNTSVILLE ALABAMA	1,242 * 1,242	397	VALIDITY CORP CHELTENHAM MARYLAND CLINTON MARYLAND	S 1,104 * 232 872
373	ARETE ASSOCIATES INC SANTA MONICA CALIFORNIA	S 1,225 * 1,225	398	RAIL CO INC ARLINGTON VIRGINIA FALLS CHURCH VIRGINIA	S 1,101 * 1,071 30
375	SYSTEMS PLANNING & ANALYSIS INC ARLINGTON VIRGINIA FALLS CHURCH VIRGINIA	S 1,216 * 518 698	400	DOTY ASSOCIATES ROCKVILLE MARYLAND	S 1,090 * 1,090
376	OCEAN DATA SYSTEMS INC MONTEREY CALIFORNIA SAN DIEGO CALIFORNIA ROCKVILLE MARYLAND	S 1,215 * 60 30 1,125	402	SANTA FE CORP ALEXANDRIA VIRGINIA	S 1,080 * 1,080

- * MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S * SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
404	FREQUENCY ELECTRONICS INC HYDE PARK NEW YORK NEW HYDE PARK NEW YORK	S 1,071 * 1,019 52	427	CRAIG SYSTEMS CORP LAWRENCE MASS	971 * 971
405	SACHS FREEMAN ASSOCIATES INC WASHINGTON DC BLADENSBURG MARYLAND BOWIE MARYLAND HYATTSVILLE MARYLAND	S 1,067 * 259 190 88 530	428	FEDERAL ELECTRIC CORP EDWARDS AFB CALIFORNIA	969 * 969
406	DENELCOR INC DENVER COLORADO	S 1,066 * 1,066	429	KURAS ALTERMAN CORP FAIRFIELD NEW JERSEY WAYNE NEW JERSEY ARLINGTON VIRGINIA	966 * 156 729 81
408	CALIFORNIA RESEARCH & TECHNOLOGY WOODLAND HILLS CALIFORNIA	S 1,054 * 1,054	431	SCIENTIFIC TECH ASSOCIATES INC PRINCETON NEW JERSEY	S 963 * 963
409	DESIGNERS & PLANNERS INC NEW YORK NEW YORK ARLINGTON VIRGINIA	S 1,054 * 68 986	432	TELEDYNE INC SAN DIEGO CALIFORNIA MUSKEGON MICHIGAN TOLEDO OHIO GARLAND TEXAS	963 * 108 425 30 400
410	PETERSON BUILDERS INC STURGEON BAY WISCONSIN	S 1,050 * 1,050	433	ADVANCED MARINE ENTERPRISES INC ARLINGTON VIRGINIA	S 962 * 962
411	SUPPORT SYSTEMS ASSOCIATES INC BURLINGTON MASS DAYTON OHIO WRIGHT PATTERS OHIO	S 1,050 * 629 67 488	434	GRUMMAN CORP BETHPAGE NEW YORK	957 * 957
412	SPECTRA RESEARCH SYSTEMS INC HUNTSVILLE ALABAMA IRVINE CALIFORNIA NEWPORT BEACH CALIFORNIA	S 1,049 * 178 356 515	436	SPIRE CORP BEDFORD MASS	S 952 * 952
413	PHYSICS APPLICATIONS INC FREMONT CALIFORNIA SAN JOSE CALIFORNIA DAYTON OHIO	S 1,048 * 969 49 30	437	WATKINS JOHNSON CO PALO ALTO CALIFORNIA GAITHERSBURG MARYLAND	946 * 926 20
414	EASTMAN KODAK CO ROCHESTER NEW YORK	1,044 * 1,044	438	MICROELECTRONICS ENGINEERING CORP AUBURN ALABAMA	S 944 * 944
415	MEASUREMENT CONCEPT CORP FORT MONMOUTH NEW JERSEY ROME NEW YORK	S 1,041 * 49 992	439	MCFANN GRAY & ASSOCIATES MONTEREY CALIFORNIA SAN ANTONIO TEXAS	S 941 * 873 68
417	BLOCK ENGINEERING INC CAMBRIDGE MASS	S 1,037 * 1,037	440	POLAR RESEARCH LABORATORY INC SANTA BARBARA CALIFORNIA	S 939 * 939
419	NIELSEN ENGINEERING & RESEARCH CO MOUNTAIN VIEW CALIFORNIA	S 1,021 * 1,021	441	MICROWAVE ASSOCIATES INC BURLINGTON MASS	935 * 935
421	ARMAMENT SYSTEMS INC ANAHEIM CALIFORNIA ABERDEEN PROV MARYLAND	S 1,011 * 891 120	443	SPECTRAL DYNAMICS CORP SAN DIEGO CALIFORNIA	926 * 926
422	J R B ASSOCIATES INC MCLEAN VIRGINIA	1,006 * 1,006	444	EAGLE TECHNOLOGY INC FULLERTON CALIFORNIA WARMINSTER PA ARLINGTON VIRGINIA	S 924 * 542 128 254
423	M & S COMPUTING INC HUNTSVILLE ALABAMA MADISON ALABAMA	S 989 * 975 14	445	ADVANCED INFORMATION & DECN SYS LOS ALTOS CALIFORNIA MOUNTAIN VIEW CALIFORNIA	S 923 * 39 884
424	ANALYTICAL ASSESSMENTS CORP MARINA DEL REY CALIFORNIA	S 977 * 977	446	CORVUS SYSTEMS INC MCLEAN VIRGINIA VIENNA VIRGINIA	S 920 * 135 785
425	CHALCO ENGINEERING CORP EDWARDS AFB CALIFORNIA	S 973 * 973	447	HYDROACOUSTICS INC ROCHESTER NEW YORK	S 918 * 918
426	FALCON RESEARCH & DEVELOPMENT CO DENVER COLORADO ENGLEWOOD COLORADO BALTIMORE MARYLAND ALBUQUERQUE NEW MEXICO BUFFALO NEW YORK	973 * 83 93 548 25 224	448	C D I CORP ARLINGTON VIRGINIA	913 * 913
			449	MINE SAFETY APPLIANCES CO EVANS CITY PA	903 * 903

* - MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S - SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
450	GEODYNAMICS CORP SANTA BARBARA CALIFORNIA SPRINGFIELD VIRGINIA	S 901 * 734 167	475	OCEAN TECHNOLOGY INC BURBANK CALIFORNIA MIDDLETOWN RI	806 * 727 79
451	GIBBS & COX INC NEW YORK ARLINGTON VIRGINIA	894 * 19 875	477	POLARIS INC ARLINGTON VIRGINIA OAKTON VIRGINIA	S 799 * 111 688
452	DYNAMICS SYSTEMS CORP MCLEAN VIRGINIA	890 * 890	478	LITTON INDUSTRIES INC SAN CARLOS CALIFORNIA VAN NUYS CALIFORNIA COLLEGE PARK MARYLAND PASCAGOULA MISS	798 * 215 45 290 248
453	XYBION CORP CEDAR KNOLLS NEW JERSEY	S 883 * 883	479	BEDFORD RESEARCH ASSOCIATES INC HANSCOM AFB MASS	S 796 * 796
454	ROSENBLATT M SON INC NEW YORK ARLINGTON VIRGINIA	S 879 * 91 788	480	COMPUGRAPHIC CORP WILMINGTON MASS	791 * 791
455	EDMAC ASSOCIATES INC ROCHESTER NEW YORK	S 870 * 870	481	NUCLEAR METALS INC CONCORD MASS	S 790 * 790
456	NORTH AMERICAN PHILIPS CORP BRIARCLIFF MAN NEW YORK	869 * 869	483	P E SYSTEMS INC SAN DIEGO CALIFORNIA ALEXANDRIA VIRGINIA	S 787 * 196 591
457	I M R SYSTEMS CORP FORT LEAVENWOR KANSAS	S 866 * 866	484	ADVANCED DESIGN CORP ALEXANDRIA VIRGINIA	S 783 * 783
459	SONALYSTS INC WATERFORD CONN	S 863 * 863	485	NEW TECHNOLOGY INC HUNTSVILLE ALABAMA	S 783 * 783
461	RADIAN CORP AUSTIN TEXAS	859 * 859	487	KERNCO INC DANVERS MASS	S 778 * 778
462	KTECH CORP ALBUQUERQUE NEW MEXICO	S 854 * 854	488	INTERNATIONAL HARVESTER CO SAN DIEGO CALIFORNIA	777 * 777
463	MARINETTE MARINE CORP MARINETTE WISCONSIN	S 850 * 850	489	PACIFIC ANALYSIS CORP HONOLULU CITY HAWAII	S 776 * 776
464	EDUCATIONAL COMPUTER CORP ORLANDO FLORIDA	S 846 * 846	491	MAR INC ROCKVILLE MARYLAND	S 772 * 772
465	CADILLAC GAGE CO WARREN MICHIGAN	845 * 845	492	APPLICATIONS RESEARCH CORP DAYTON OHIO	S 770 * 770
466	APPLICON INC BURLINGTON MASS	S 839 * 839	493	SYSTRAN CORP DAYTON OHIO	S 770 * 770
467	BATTELLE COLUMBUS LABORATORIES COLUMBUS OHIO	838 * 838	494	STERLING SYSTEMS INC DENVER COLORADO ROME NEW YORK MCLEAN VIRGINIA	S 766 * 17 43 706
468	ANALYTIC DECISIONS INC ARLINGTON VIRGINIA	S 835 * 835	495	LOCKHEED ELECTRONICS CO INC ORLANDO FLORIDA PLAINFIELD NEW JERSEY	765 * 216 549
469	ADVANCED TECHNOLOGY MCLEAN VIRGINIA	S 828 * 828	496	MAC AULAY BROWN INC DAYTON OHIO FAIRBORN OHIO	S 765 * 584 181
470	ESSEX CORP WHITE SANDS MS NEW MEXICO ALEXANDRIA VIRGINIA	S 828 * 160 668	497	ERTEC WESTERN INC LONG BEACH CALIFORNIA	S 763 * 763
471	SHARP GEORGE G INC NEW YORK ARLINGTON VIRGINIA	S 819 * 221 598	498	SIERRA GEOPHYSICS INC ARCADIA CALIFORNIA REDMOND WASHINGTON	S 763 * 623 140
472	DEFENSE SYSTEMS INC ARLINGTON VIRGINIA MCLEAN VIRGINIA	S 816 * 111 705			
474	VREDENBURG R M & CO MCLEAN VIRGINIA	S 813 * 813			

- * MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S * SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Business Firms: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
499	TECHNOLOGY DEVELOPMENT CORP CALIF S ARLINGTON TEXAS	760 - 760			
500	I L C DOVER FREDERICA DELAWARE	759 - 759			
		8,929,974			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)
S = SMALL BUSINESS

**Table 3. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Educational and Nonprofit Institutions: FY 1981**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
10	AEROSPACE CORP EL SEGUNDO CALIFORNIA	198,931 * 198,931		BATTELLE MEMORIAL INSTITUTE	
13	JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND LAUREL MARYLAND SCAGGSVILLE MARYLAND	186,350 * 103,884 118,382 35,916-		FORT MONMOUTH NEW JERSEY WHITE SANDS MS NEW MEXICO DEER PARK NEW YORK DURHAM NCAR RESEARCH TRIAN NCAR COLUMBUS OHIO WRIGHT PATTERS OHIO FORT SILL OKLAHOMA FORT BLISS TEXAS FORT WORTH TEXAS FORT BELVOIR VIRGINIA FORT EUSTIS VIRGINIA FORT LEE VIRGINIA FORT MONROE VIRGINIA RICHLAND WASHINGTON	225 283 17 261 214 11,456 25 11 69 19 150 176 32 535 665
15	MASSACHUSETTS INSTITUTE TECHNOLOGY CAMBRIDGE MASS LEXINGTON MASS	163,827 * 26,108 137,719		78 TEXAS UNIVERSITY OF ARLINGTON TEXAS AUSTIN TEXAS DALLAS TEXAS EL PASO TEXAS GALVESTON TEXAS HOUSTON TEXAS RICHARDSON TEXAS SAN ANTONIO TEXAS	16,514 * 70 15,415 95 135 61 50 102 586
21	MITRE CORP BEDFORD GREECE MASS	128,789 * 39 128,750		86 ROCHESTER UNIVERSITY OF ROCHESTER NEW YORK ARLINGTON VIRGINIA	15,044 * 1,613 13,431
43	CHARLES STARK DRAPER LABS INC CAMBRIDGE MASS	47,871 * 47,871		87 PENNSYLVANIA STATE UNIVERSITY HERSHEY PA STATE COLLEGE PA UNIVERSITY PAR PA	15,018 * 16 1,216 13,786
48	ILLINOIS INSTITUTE TECHNOLOGY CHICAGO ILLINOIS ANNAPOLIS MARYLAND GRIFFISS AFB NEW YORK ROME NEW YORK WRIGHT PATTERS OHIO	36,452 * 5,172 30,292 435 341 212		88 INSTITUTE FOR DEFENSE ANALYSIS ARLINGTON VIRGINIA	14,690 * 14,690
53	S R I INTERNATIONAL MENLO PARK CALIFORNIA MOFFETT FIELD CALIFORNIA ARLINGTON VIRGINIA	33,609 * 33,047 550 12		93 DAYTON UNIVERSITY OF WILLIAMS AFB ARIZONA EDWARDS AFB CALIFORNIA KIRTLAND AFB NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO	13,551 * 963 308 2,251 6,049 3,980
57	CALIFORNIA UNIVERSITY OF BERKELEY CALIFORNIA DAVIS CALIFORNIA IRVINE CALIFORNIA LA JOLLA CALIFORNIA LIVERMORE CALIFORNIA LOS ANGELES CALIFORNIA RIVERSIDE CALIFORNIA SAN DIEGO CALIFORNIA SAN FRANCISCO CALIFORNIA SANTA BARBARA CALIFORNIA SANTA CRUZ CALIFORNIA SEPUVEDA CALIFORNIA WRIGHT PATTERS OHIO	29,878 * 7,526 117 1,359 10,362 35 3,672 388 739 451 1,414 147 60 3,608		94 WASHINGTON UNIVERSITY OF ST LOUIS MISSOURI SEATTLE WASHINGTON	13,529 * 175 13,354
68	RAND CORP SANTA MONICA CALIFORNIA	20,467 * 20,467		97 SOUTHERN CALIFORNIA UNIVERSITY OF LOS ANGELES CALIFORNIA MARINA DEL REY CALIFORNIA	12,614 * 12,499 115
72	GEORGIA TECH RESEARCH INSTITUTE ATLANTA GEORGIA	18,261 * 18,261		121 UTAH STATE UNIVERSITY LOGAN UTAH	8,700 * 8,700
74	STANFORD UNIVERSITY MENLO PARK CALIFORNIA PALO ALTO CALIFORNIA STANFORD CALIFORNIA	18,004 * 95 254 17,655		132 WOODS HOLE OCEANOGRAPHIC INST WOODS HOLE MASS	7,403 * 7,403
77	BATTELLE MEMORIAL INSTITUTE HUNTSVILLE ALABAMA REDSTONE ARSEN ALABAMA SANTA MONICA CALIFORNIA WASHINGTON DC CLEARWATER FLORIDA ATLANTA GEORGIA FORT GORDON GEORGIA ABERDEEN PROV MARYLAND ADELPHI MARYLAND ANNAPOLIS MARYLAND FORT DETRICK MARYLAND WALTHAM MASS WATERTOWN MASS ANN ARBOR MICHIGAN WARREN MICHIGAN VICKSBURG MISS DOVER NEW JERSEY	16,600 * 262 448 13 146 11 75 39 882 14 24 11 15 22 51 12 11 426		135 CARNEGIE MELLON UNIVERSITY PITTSBURGH PA 137 ANALYTIC SERVICES INC WRIGHT PATTERS OHIO WILLOW GROVE PA ARLINGTON VIRGINIA 138 MARYLAND UNIVERSITY OF BALTIMORE MARYLAND COLLEGE PARK MARYLAND	7,295 * 7,295 6,934 * 62 59 6,813 6,775 * 2,451 4,324

* - MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 3. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Educational and Nonprofit Institutions: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
140	NEW MEXICO UNIVERSITY OF ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO	6,631 * 373 6,258	231	YALE UNIVERSITY NEW HAVEN CONN	2,801 * 2,801
144	ILLINOIS UNIVERSITY OF CHAMPAIGN ILLINOIS CHICAGO ILLINOIS URBANA ILLINOIS	6,148 * 375 1,118 4,655	233	MIAMI UNIVERSITY OF CORAL GABLES FLORIDA MIAMI FLORIDA	2,785 * 2,406 379
148	ENVIRONMENTAL RSCH INST OF MICH ANN ARBOR MICHIGAN	6,011 * 6,011	236	PRINCETON UNIVERSITY PRINCETON NEW JERSEY	2,684 * 2,684
154	GEORGIA INSTITUTE TECH ATLANTA GEORGIA	5,437 * 5,437	241	BOSTON UNIVERSITY BOSTON MASS CHESTNUT HILL MASS	2,584 * 2,532 52
155	PENNSYLVANIA UNIVERSITY OF WASHINGTON DC PHILADELPHIA PA	5,424 * 126 5,298	242	HARVARD UNIVERSITY CAMBRIDGE MASS	2,576 * 2,576
156	COLUMBIA UNIVERSITY NEW YORK NEW YORK PALISADES NEW YORK	5,324 * 4,991 333	243	SOUTHEASTERN CTR ELECT ENGR EDUC ORLANDO FLORIDA ST CLOUD FLORIDA WRIGHT PATTERS OHIO	2,575 * 136 2,217 222
167	SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO TEXAS	4,629 * 4,629	248	NORTHWESTERN UNIVERSITY EVANSTON ILLINOIS	2,514 * 2,514
179	CORNELL UNIVERSITY ITHACA NEW YORK NEW YORK NEW YORK	4,087 * 3,918 169	253	COLORADO STATE UNIVERSITY FORT COLLINS COLORADO	2,344 * 2,344
185	WISCONSIN UNIVERSITY OF MADISON WISCONSIN MILWAUKEE WISCONSIN	4,047 * 4,015 32	254	CASE WESTERN RESERVE UNIVERSITY CLEVELAND OHIO	2,335 * 2,335
186	NEW MEXICO STATE UNIVERSITY LAS CRUCES NEW MEXICO WHITE SANDS MS NEW MEXICO	3,994 * 1,710 2,284	256	GEORGE WASHINGTON UNIVERSITY WASHINGTON DC	2,307 * 2,307
187	CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA CALIFORNIA	3,981 * 3,981	259	VIRGINIA POLYTECHNIC INSTITUTE BLACKSBURG VIRGINIA	2,204 * 2,204
199	MICHIGAN UNIVERSITY OF ANN ARBOR MICHIGAN	3,504 * 3,504	263	OKLAHOMA STATE UNIVERSITY OF EGLIN AFB FLORIDA STILLWATER OKLAHOMA	2,177 * 1,218 959
201	OHIO STATE UNIV RESERCH FOUNDATION COLUMBUS OHIO	3,450 * 3,450	277	MINNESOTA UNIVERSITY OF MINNEAPOLIS MINNESOTA ST PAUL MINNESOTA	1,960 * 1,120 840
203	ARIZONA UNIVERSITY OF TUCSON ARIZONA	3,436 * 3,436	278	PURDUE RESEARCH FOUNDATION LAFAYETTE INDIANA WEST LAFAYETTE INDIANA	1,952 * 124 1,828
207	OREGON STATE UNIVERSITY CORVALLIS OREGON	3,380 * 3,380	279	RENSSELAER POLYTECHNIC INSTITUTE TROY NEW YORK	1,942 * 1,942
215	HUMAN RESOURCES RESEARCH ORGN ALEXANDRIA GERMANY VIRGINIA	3,237 * 641 2,596	284	HAWAII UNIVERSITY OF HONOLULU CITY HAWAII	1,895 * 1,895
221	RIVERSIDE RESEARCH INSTITUTE NEW YORK NEW YORK ARLINGTON VIRGINIA	3,097 * 2,834 463	285	NEW MEXICO INSTITUTE MINING & TECH SOCORRO NEW MEXICO	1,843 * 1,843
226	TEXAS A & M RESEARCH FOUNDATION COLLEGE STATIO TEXAS	3,005 * 3,005	287	PITTSBURGH UNIVERSITY OF PITTSBURGH PA	1,826 * 1,826
229	BOSTON COLLEGE CHESTNUT HILL MASS HANSCOM AFB MASS NEWTON MASS WESTON MASS	2,868 * 2,200 15 248 405	292	NEW YORK POLYTECHNIC INSTITUTE BROOKLYN NEW YORK NEW YORK NEW YORK	1,783 * 1,718 65
			295	NEW YORK STATE UNIV RESEARCH FOUND ALBANY NEW YORK BUFFALO NEW YORK STONY BROOK NEW YORK	1,780 * 1,676 26 78

* - MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 3. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Educational and Nonprofit Institutions: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
299	RHODE ISLAND UNIVERSITY OF KINGSTON RI	1,749 + 1,749	368	GEORGETOWN UNIVERSITY WASHINGTON DC	1,257 + 1,257
301	FLORIDA UNIVERSITY GAINESVILLE FLORIDA	1,725 + 1,725	374	IOWA UNIVERSITY OF IOWA CITY IOWA	1,223 + 1,223
303	FLORIDA TECHNOLOGICAL UNIVERSITY ORLANDO FLORIDA	1,717 + 1,717	380	NORTH CAROLINA STATE UNIVERSITY CHAPEL HILL NCAR RALEIGH NCAR	1,201 + 33 1,168
304	TEXAS TECHNOLOGICAL COLLEGE LUBBOCK TEXAS	1,695 + 1,695	387	ALABAMA UNIVERSITY OF BIRMINGHAM ALABAMA HUNTSVILLE ALABAMA UNIVERSITY ALABAMA	1,156 + 226 759 173
311	STEVENS INSTITUTE OF TECHNOLOGY HOBOKEN NEW JERSEY	1,669 + 1,669	389	OHIO STATE UNIVERSITY THE COLUMBUS OHIO	1,149 + 1,149
313	PALISADES GEOPHYSICAL INSTITUTE BERMUDA MIAMI FLORIDA BLAUVELT NEW YORK WEST NYACK NEW YORK	1,662 + 210 11 429 1,012	392	NEW YORK UNIVERSITY NEW YORK NEW YORK	1,134 + 1,134
314	FLORIDA STATE UNIVERSITY GAINESVILLE FLORIDA TALLAHASSEE FLORIDA	1,659 + 291 1,368	399	LEHIGH UNIVERSITY BETHLEHEM PA	1,099 + 1,099
316	UTAH UNIVERSITY OF DUGWAY UTAH SALT LAKE CITY UTAH	1,647 + 54 1,593	401	DENVER UNIVERSITY OF DENVER COLORADO	1,084 + 1,084
318	SOUTHERN RESEARCH INSTITUTE BIRMINGHAM ALABAMA	1,643 + 1,643	403	SALK INSTITUTE THE SWIFTWATER PA	1,074 + 1,074
319	CAPITOL RADIO ENGINEERING INST INC SILVER SPRING MARYLAND	1,639 + 1,639	407	TENNESSEE UNIVERSITY OF KNOXVILLE TENNESSEE MEMPHIS TENNESSEE TULLAHOMA TENNESSEE	1,061 + 661 46 354
321	WENTWORTH INSTITUTE BOSTON MASS	1,627 + 1,627	416	MISSOURI UNIVERSITY OF COLUMBIA MISSOURI KANSAS CITY MISSOURI ROLLA MISSOURI	1,040 + 609 78 353
322	COLORADO UNIVERSITY BOULDER COLORADO COLORADO SPGS COLORADO DENVER COLORADO	1,607 + 1,473 95 39	418	WASHINGTON UNIVERSITY ST LOUIS MISSOURI	1,033 + 1,033
325	SYRACUSE UNIVERSITY ROME NEW YORK SYRACUSE NEW YORK	1,587 + 207 1,380	420	LOUISIANA STATE UNIVERSITY OF BATON ROUGE LOUISIANA NEW ORLEANS LOUISIANA	1,020 + 974 46
326	MASSACHUSETTS UNIVERSITY OF AMHERST MASS	1,577 + 1,577	430	CLEMSON UNIVERSITY CLEMSON SCAR	963 + 963
328	NORTHEASTERN UNIVERSITY BOSTON MASS	1,554 + 1,554	435	DREXEL UNIVERSITY PHILADELPHIA PA	952 + 952
335	SYRACUSE RESEARCH CORP SYRACUSE NEW YORK	1,521 + 1,521	442	WASHINGTON STATE UNIVERSITY PULLMAN WASHINGTON	935 + 935
337	AMERICAN HEALTH FOUNDATION NEW YORK NEW YORK	1,509 + 1,509	458	MICHIGAN STATE UNIVERSITY EAST LANSING MICHIGAN	863 + 863
351	RESEARCH TRIANGLE INSTITUTE RESEARCH TRIAN NCAR	1,376 + 1,376	460	NORTH CAROLINA UNIVERSITY OF CHAPEL HILL NCAR WILMINGTON NCAR	859 + 773 86
353	BROWN UNIVERSITY PROVIDENCE RI	1,341 + 1,341	473	EMMANUEL COLLEGE BOSTON MASS LEXINGTON MASS	813 + 33 780
355	DUKE UNIVERSITY DURHAM NCAR	1,335 + 1,335	482	MICHIGAN TECHNOLOGICAL UNIVERSITY HOUGHTON MICHIGAN	787 + 787
362	VIRGINIA UNIVERSITY OF CHARLOTTESVILL VIRGINIA	1,297 + 1,297			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 3. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Educational and Nonprofit Institutions: FY 1981
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
486	PALISADES INSTITUTE NEW YORK NEW YORK	780 - 780			
490	SYRACUSE UNIVERSITY RESEARCH CORP SYRACUSE NEW YORK	775 - 775			
		1,219,059			
<p>- * MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)</p>					

**Table 4. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to Foreign Contractors: FY 1981**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
79	CANADIAN COMMERCIAL CORP WARMINSTER CANADA PA	16,324 - 16,259 65			
90	RAUFOSS AMMUNISJONSFABRIKKER NORWAY	14,531 - 14,531			
159	ALVIS LTD UN KINGDOM	5,259 - 5,259			
176	ROYAL NORWEGIAN NAV MAT COMM NORWAY	4,232 - 4,232			
191	MARCONI CO LTD UN KINGDOM	3,850 - 3,850			
237	UNITED KINGDOM MINISTRY OF DEFENCE UN KINGDOM	2,670 - 2,670			
317	MATRA CO FRANCE	1,644 - 1,644			
		48,510			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 5. Net Value of DOD Prime Contract Awards Over \$10,000
for RDT&E to U.S. Government Agencies: FY 1981**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
76	UNITED STATES NATL AERO SPACE AGY RIDGELEY WVA	16,984 * 16,984			
142	NATIONAL ACADEMY OF SCIENCES WASHINGTON DC ABERDEEN PROV MARYLAND BETHESDA MARYLAND WHITE SANDS MS NEW MEXICO	6,311 * 5,892 65 224 130			
228	UNITED STATES COMMERCE DEPT BOULDER COLORADO WASHINGTON DC MIAMI FLORIDA GAITHERSBURG MARYLAND ROCKVILLE MARYLAND SEATTLE WASHINGTON	2,946 * 940 1,705 105 105 50 41			
476	NATIONAL SCIENCE FOUNDATION WASHINGTON DC	801 * 801			
		27,042			

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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