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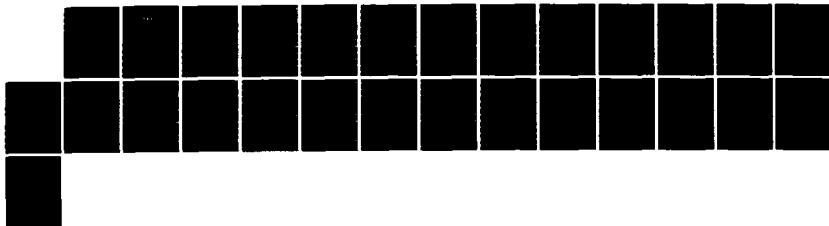
500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF
PRIME CONTRACT AMR. (U) WASHINGTON HEADQUARTERS
SERVICES (DOD) DC DIRECTORATE FOR INF. 1977
DIOR/P02-77

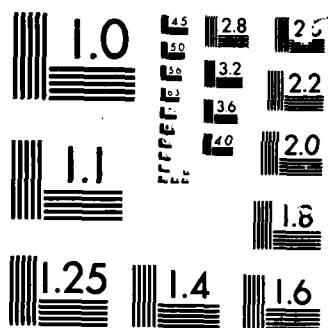
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500 CONTRACTORS

CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME
OF ~~MILITARY~~ PRIME CONTRACT AWARDS FOR RDT&E

FISCAL YEAR 1977

DEPARTMENT OF DEFENSE
WASHINGTON HEADQUARTERS SERVICES
DIRECTORATE FOR INFORMATION OPERATIONS
AND REPORTS

HD-A150 223

500 CONTRACTORS LISTED ACCORDING TO NET VALUE OF
MILITARY PRIME CONTRACT AWARDS FOR RESEARCH,
DEVELOPMENT, TEST, AND EVALUATION WORK

FISCAL YEAR 1977

This report lists the leading 500 military prime contractors according to the net value of awards over \$10,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year 1977. This list is arranged in four sections. The first section includes 386 U. S. business firms, the second includes 104 educational and other nonprofit institutions, the third includes 3 foreign contractors, and the fourth includes 7 U. S. Government agencies. There are 93 contractors on the Fiscal Year 1977 list who did not appear on the Fiscal Year 1976 list. Of the 386 U. S. business firms listed, 194 were small business firms.

Contractors in all sections are ranked in a single sequence so that only one contractor in the report is No. 1. The alphabetical index shows the section in which each contractor is located and his rank. The locations shown are those where the work was expected to be performed. Generally, the location is a contractor's plant, laboratory, or other facility. However, if the work was scheduled to be performed at a Defense activity, such as an Air Force Base, the location is the Defense activity rather than the contractor's plant.

In addition to the 500 listed contractors, there were 1,398 other contractors who were awarded prime contracts over \$10,000 for RDT&E work during Fiscal Year 1977, making a total of 1,898 contractors in all compared with 1,816 contractors during Fiscal Year 1976. Included in the Fiscal Year 1977 total were 290 educational and other nonprofit institutions, 28 foreign contractors, 11 U. S. Government agencies, and 1,569 U. S. business firms (1,076 small and 493 large business firms).

The dollar value of \$7,751 million for the 500 largest contractors represents 98.2 percent of the \$7,893 million total prime contract awards of \$10,000 or more for RDT&E work. The contractors with the largest value of awards were engaged in research, development, test, or evaluation of missile and space systems, electronic and communications equipment, aircraft, and other highly complex military equipment. In Fiscal Year 1977, 72.7 percent of all RDT&E awards of \$10,000 or more to U. S. business firms was for work connected with missile and space systems, electronic and communications equipment, and aircraft programs.

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Washington Headquarters Services
Directorate for Information
Operations and Reports

May 24, 1978

INDEX OF 500 LARGEST MILITARY
PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,
TEST AND EVALUATION WORK

FISCAL YEAR 1977

RANK + LIST +	CONTRACTOR	RANK + LIST +	CONTRACTOR
138 B	A A I CORP	75 N	BATTELLE MEMORIAL INSTITUTE
173 B	A E L SERVICE CORP	318 E	BEECH AIRCRAFT CORP
161 B	ACUREX CORP	48 E	BENDIX CORP
327 B	ADAPTO INC	160 E	BENDIX FIELD ENGINEERING CORP
291 B	ADVANCED TECHNOLOGY INC	430 E	BIO MED INC
317 B	AERODYNE RESEARCH INC	248 E	BIOMETRICS INC
465 B	AEROFLEX LABORATORIES INC	492 E	BIRD ENGINEERING RESEARCH ASSOC
32 B	AEROJET GENERAL CORP	5 E	BOEING CO
340 B	AERONAUTICAL RESEARCH ASSOCIATES	36 E	BOEING VERTOL CO
43 N	AEROSPACE CORP	86 B	BOLT BERANEK & NEWMAN INC
414 B	AGRAHAN ASSOCIATES	147 E	BOOZ ALLEN & HAMILTON INC
475 B	AIRESEARCH MFG CO OF ARIZONA	167 E	BOOZ ALLEN APPLIED RESEARCH INC
84 N	ALASKA UNIVERSITY OF	270 N	BOSTON COLLEGE
250 B	ALEXIQU CARSON CORP	363 N	BOSTON UNIVERSITY
235 B	ALL AMERICAN INDUSTRIES INC	428 N	BROWN UNIVERSITY
369 B	ALUMINUM CO OF AMERICA	282 E	BRUNSWICK CORP
245 B	AMERICAN AIRLINES INC	74 E	BUNKER RAMP CORP
54 B	AMERICAN BELL INTERNATIONAL INC	169 E	BURROUGHS CORP
491 B	AMERICAN COMMUNICATIONS CORP	193 E	C N A INC
419 B	AMERICAN ELECTRONIC LABS INC	196 E	C T E C
279 B	AMERICAN NUCLEONICS CORP	347 E	CADCOM INC
335 N	AMERICAN UNIVERSITY	152 E	CADRE CORP
320 B	AMPEX CORP	237 N	CALIFORNIA INSTITUTE OF TECHNOLOGY
436 B	ANALYSIS & COMPUTER SYSTEMS INC	422 E	CALIFORNIA RESEARCH & TECHNOLOGY
260 B	ANALYSIS & TECHNOLOGY INC	54 N	CALIFORNIA UNIVERSITY OF
107 B	ANALYTIC SCIENCES CORP	73 E	CALSPAN CORP
144 N	ANALYTIC SERVICES INC	93 E	CAMPBELL ALLEN M
210 B	ANALYTICAL SYSTEMS ENGR CORP	141 E	CANADIAN COMMERCIAL CORP
219 B	ANALYTICS INC	456 E	CANYON RESEARCH GROUP INC
412 B	APPLIED DATA RESEARCH INC	249 E	CAPTECH INC
351 B	APPLIED SCIENCE ASSOCIATES INC	151 N	CARNEGIE MELLON UNIVERSITY
294 B	ARES INC	415 N	CASE WESTERN RESERVE UNIVERSITY
350 B	ARGO SYSTEMS INC	308 N	CATHOLIC UNIVERSITY OF AMERICA
146 B	ARINC RESEARCH CORP	303 B	CELESCO INDUSTRIES
169 N	ARIZONA UNIVERSITY OF	332 B	CENBENONICS INC
19 B	ARO INC	181 B	CHAMBERLAIN MFG CORP
174 B	ATLANTIC RESEARCH CORP	474 E	CHANDLER EVANS CORP
138 N	AUBURN UNIVERSITY	30 N	CHARLES STANK GRAPER LABS INC
201 B	AUERBACH ASSOCIATES INC	14 E	CHRYSLER CORP
251 B	AUSTIN RESEARCH ASSOCIATES INC	97 E	CINCINNATI ELECTRONICS CORP
41 B	AUTOMATION INDUSTRIES INC	357 N	CINCINNATI UNIVERSITY OF
31 B	AVCO CORP	117 B	CLARK EQUIPMENT CO
77 B	AVCO EVERETT RESEARCH LABORATORY	493 N	COLORADO STATE UNIVERSITY
239 B	AYDIN CORP	249 N	COLORADO UNIVERSITY
59 B	B C M CORP	432 E	COLUMBIA RESEARCH CORP
106 B	B C M SERVICES CO	137 N	COLUMBIA UNIVERSITY
242 B	B K DYNAMICS INC	142 E	COMCO ELECTRONICS CORP
494 B	BALWIN ELECTRONICS INC	162 E	COMFAND CONTROL & COMMUNICATION
91 B	HALL BROS RESEARCH CORP	205 E	COMPTON RESEARCH INC
313 B	BATH IRON WORKS CORP	269 E	COMPUTER CORP OF AMERICA

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

INDEX OF 500 LARGEST MILITARY
PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,
TEST AND EVALUATION WORK
FISCAL YEAR 1977

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
37 B	COMPUTER SCIENCES CORP	82 E	FAIRCHILD INDUSTRIES INC
262 B	COMTEL CORP	178 E	FALCON RESEARCH & DEVELOPMENT CO
413 B	CONSOLIDATED ANALYSIS CENTER INC	364 E	FARNSWORTH CANNON INC
45 B	CONTROL DATA CORP	292 E	FARRAND OPTICAL CO INC
265 N	CORNELL UNIVERSITY	39 E	FEDERAL ELECTRIC CORP
466 B	COULTER INFORMATION SYSTEMS INC	275 E	FIBER MATERIALS INC
394 B	COURSEWARE INC	356 E	FIRESTONE TIRE & RUBBER CO
186 B	CUBIC CORP	129 B	FLIGHT SYSTEMS INC
154 B	CURTISS WRIGHT CORP	371 N	FLORIDA STATE UNIVERSITY
78 B	CUTLER HAMMER INC	406 N	FLORIDA TECHNOLOGICAL UNIVERSITY
314 B	C W A SYSTEMS INC	278 N	FLORIDA UNIVERSITY
358 B	DATACOM INC	24 B	FORD AEROSPACE & COMMUNICATIONS
253 B	DATRON SYSTEMS INC	171 E	FORD MOTOR CO
446 B	DAYTON CORP	451 E	FREQUENCY & TIME SYSTEMS INC
90 N	DAYTON UNIVERSITY OF	124 E	FUGRO NATIONAL INC
311 B	DECIOLOG INC	473 E	G R D CO
156 B	DECISIONS & DESIGNS INC	22 E	G T E SYLVANIA INC
321 B	DELEX SYSTEMS INC	67 E	GARRETT CORP
316 N	DENVER UNIVERSITY OF	3 B	GENERAL DYNAMICS CORP
171 B	DEVELOPMENT ENGINEERING INC	2 E	GENERAL ELECTRIC CO
164 B	DEWEY ELECTRONICS CORP	460 E	GENERAL INSTRUMENT CORP
349 B	DIGITAL COMMUNICATIONS CORP	49 E	GENERAL MOTORS CORP
337 B	DIGITAL EQUIPMENT CORP	382 B	GENERAL PHYSICS CORP
240 B	DIXONWOOD INDUSTRIES INC	61 B	GENERAL RESEARCH CORP
344 B	DOTY ASSOCIATES	403 E	GEODYNAMICS CORP
346 N	DUKE UNIVERSITY	247 N	GEORGE WASHINGTON UNIVERSITY
72 B	DYNALOG CORP	443 N	GEORGETOWN UNIVERSITY
159 B	DYNAMICS RESEARCH CORP	208 N	GEORGIA INSTITUTE TECH
467 B	DYNELL ELECTRONICS CORP	89 N	GEORGIA TECH RESEARCH INSTITUTE
352 B	DYNETICS INC	40 E	GLOBE ASSOCIATES
113 B	E G & G INC	118 E	GOODYEAR AEROSPACE CORP
341 B	E M F CORP	134 E	GOULD INC
87 B	E S L INC	23 E	GRUPMAN AEROSPACE CORP
60 B	E SYSTEMS INC	446 E	H I T CO
346 B	EAGLE PITCHER INDUSTRIES INC	95 B	H R B SINGER INC
359 B	EASTMAN KODAK CO	399 E	HARBRIDGE HOUSE INC
404 B	EDMAC ASSOCIATES INC	71 E	HARRIS CORP
444 B	EDUCATIONAL COMPUTER CORP	187 N	HARVARD UNIVERSITY
266 B	EFFECTS TECHNOLOGY INC	176 N	HAWAII UNIVERSITY OF
140 B	ELECTRONIC COMMUNICATIONS INC	255 E	HAYES INTERNATIONAL CORP
325 B	ELECTROSPACE SYSTEMS INC	110 E	HAZELTINE CORP
65 B	EMERSON ELECTRIC CO	438 E	HELIX TECHNOLOGY CORP
447 N	EMMANUEL COLLEGE	239 B	HENNINGSTON DONHAM RICHARDSON
344 B	ENERGY RESEARCH CORP	66 E	MERCEDES INC
252 B	ENSCO INC	483 E	MERITOR CORP
454 B	ENVIRONMENTAL RESEARCH TECHNOLOGY	306 B	HEWLETT PACKARD CO
115 N	ENVIRONMENTAL RECH INST OF MICH	496 E	HI SHEAR CORP
407 B	ESSEX CORP	26 E	HONEYWELL INC
35 B	F M C CORP	146 E	HONEYWELL INFORMATION SYSTEMS INC
140 B	FAIRCHILD CAMERA & INSTRUMENT CORP	447 N	HUDSON INSTITUTE

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PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,
TEST AND EVALUATION WORK
FISCAL YEAR 1977

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
7 B	HUGHES AIRCRAFT CO	149 E	LOCKHEED ELECTRONICS CO INC
267 B	HUGHES RESEARCH LABORATORIES	6 E	LOCKHEED MISSILES & SPACE CO INC
442 B	HUMAN FACTORS RESEARCH INC	198 E	LOCUS INC
200 N	HUMAN RESOURCES RESEARCH ORGN	100 B	LOGICON INC
423 B	HUMAN SCIENCES RESEARCH INC	114 E	LORAL CORP
142 B	HYCOR INC	304 N	LOUISIANA STATE UNIVERSITY OF
453 B	HYDRONAUTICS INC	234 B	M B ASSOCIATES
211 B	HYDROSCIENCE INC	274 E	M R C CORP
296 B	HYDROTRONICS	101 E	MAGNAVOX CO
69 N	I I T RESEARCH INSTITUTE	64 E	MAGNAVOX GOVT & INDUSTRIAL ELEC CO
331 B	I R T CORP	324 B	MAN TECH CORP
469 B	I T T ARCTIC SERVICES	345 E	MAR INC
377 B	I T T GILFILLAN INC	376 E	MARK RESOURCES INC
119 N	ILLINOIS UNIVERSITY OF	125 E	MARQUARDT CO
440 B	IMAGE GRAPHICS INC	9 E	MARTIN MARETTA CORP
246 B	INCO INC	207 N	MARYLAND UNIVERSITY OF
393 B	INDUSTRIAL BIO TEST LABORATORIES	315 E	MASSACHUSETTS COMPUTER ASSOCIATES
199 B	INFORMATION DEV & APPLICATIONS	17 N	MASSACHUSETTS INSTITUTE TECHNOLOGY
241 B	INFORMATION SPECTRUM INC	441 N	MASSACHUSETTS UNIVERSITY OF
68 N	INSTITUTE FOR DEFENSE ANALYSIS	144 E	MAXWELL LABORATORIES INC
257 B	INTELCOM RAD TECH	4 E	MCCONNELL DOUGLAS CORP
263 B	INTERMETRICS INC	301 E	MC MULLEN JOHN J ASSOCIATES INC
11 B	INTERNATIONAL BUSINESS MACHINE CO	165 E	MEAD TECHNOLOGY LABORATORIES
197 B	INTERNATIONAL HARVESTER CO	500 E	MECHANICAL TECHNOLOGY INC
158 B	INTERNATIONAL LASER SYSTEMS INC	439 E	MECHANICS RESEARCH INC
33 B	INTERNATIONAL TELEPHONE & TEL CORP	440 E	MERCAN GROUP
46 B	INTERSTATE ELECTRONICS CORP	319 E	METEOROLOGY RESEARCH INC
421 N	IOWA UNIVERSITY OF	214 E	METRIC SYSTEMS CORP
94 B	ITEK CORP	227 N	MIAMI UNIVERSITY OF
248 B	J P A ASSOCIATES INC	163 N	MICHIGAN UNIVERSITY OF
273 B	JAYCOR	497 E	MICROCOM CORP
16 N	JOHNS HOPKINS UNIVERSITY	220 N	MIDWEST RESEARCH INSTITUTE
295 B	KATZER INDUSTRIES CORP	485 E	MILLMASTER GNYX CORPORATION
79 B	KAMAN AEROSPACE CORP	102 B	MINI SAFETY APPLIANCES CO
104 B	KAMAN SCIENCES CORP	334 N	MINNESOTA UNIVERSITY OF
374 B	KAPPA SYSTEMS INC	150 E	MISSION RESEARCH CORP
222 B	KECO INDUSTRIES INC	417 N	MISSOURI UNIVERSITY OF
57 B	KENTRON HAWAII LTD	28 N	MITRE CORP
157 B	KETRON INC	339 E	MONSANTO RESEARCH CORP
404 B	KEYSTONE COMPUTER ASSOCS INC	55 E	MOTOROLA INC
449 B	KINTON INC	120 N	NATIONAL ACADEMY OF SCIENCES
170 B	KUWAS ALTERMAN CORP	409 N	NATIONAL SCIENCE FOUNDATION
276 B	L T V CORP	452 E	NETWORK ANALYSIS CORP
124 B	LEAR SIEGLER INC	217 N	NEW MEXICO INSTITUTE MINING & TECH
444 B	LEONAGE BAG & IMPORT CO	109 N	NEW MEXICO STATE UNIVERSITY
429 B	LIFE SYSTEMS INC	136 N	NEW MEXICO UNIVERSITY OF
272 B	LINKBIT CORP	262 N	NEW YORK POLYTECHNIC INSTITUTE
223 B	LITTLE ARTHUR D INC	264 N	NEW YORK STATE UNIV RESEARCH FOUND
47 B	LITTON SYSTEMS INC	297 N	NEW YORK UNIVERSITY
14 B	LOCKHEED AIRCRAFT CORP	191 E	NEWPORT NEWS SHIPBLD & DRY DOCK CO

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INDEX OF 500 LARGEST MILITARY
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FISCAL YEAR 1977

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
400 B	NIELSEN ENGINEERING & RESEARCH CO	183 E	QUINTRON SYSTEMS INC
372 B	NOAH J WATSON ASSOCIATES INC	84 E	R & D ASSOCIATES
341 B	NORTH AMERICAN PHILIPS CORP	13 B	R C A CORP
462 N	NORTH CAROLINA UNIVERSITY OF	309 E	R C A LABORATORIES SARNOFF RES CTR
310 N	NORTHEASTERN UNIVERSITY	387 E	RALSTON PURINA CO
21 B	NORTHROP CORP	63 N	RAND CORP
424 N	NORTHWESTERN UNIVERSITY	427 E	RAYCOHM INDUSTRIES INC
383 B	OCEAN DATA SYSTEMS INC	481 E	RAYMOND ENGINEERING INC
330 B	OCEAN TECHNOLOGY INC	8 E	RAYTHEON CO
177 N	OHIO STATE UNIV RESERCH FOUNDATION	202 F	REDIFCN FLIGHT SIMULATION LTD
261 N	OKLAHOMA STATE UNIVERSITY CF	445 N	REGIS COLLEGE
471 B	OMNI SPECTRA INC	385 N	RENSELAER POLYTECHNIC INSTITUTE
175 B	OPERATIONS RESEARCH INC	348 N	RESEARCH TRIANGLE INSTITUTE
229 N	OREGON STATE UNIVERSITY	328 N	RHODE ISLAND UNIVERSITY OF
367 B	ORINCON CORP	277 B	RICHARDSON MERRILL INC
420 B	P E SYSTEMS INC	155 N	RIVERSIDE RESEARCH INSTITUTE
437 B	P R C TECHNICAL APPLICATIONS	80 N	ROCHESTER UNIVERSITY OF
216 B	PACCAR INC	1 B	ROCKWELL INTERNATIONAL CORP
233 B	PACER SYSTEMS INC	34 E	ROHM INDUSTRIES INC
459 B	PACIFIC ANALYSIS CORP	414 E	ROME RESEARCH CORP
243 B	PACIFIC SIERRA RESEARCH CORP	370 F	ROYAL NORWEGIAN ENCL SCNTFC INC RS
354 B	PACIFICA TECHNOLOGY	464 E	RYCKMAN EDGERLEY TOMLINSON & ASSOC
192 N	PALISADES GEOPHYSICAL INSTITUTE	333 B	S C I SYSTEMS INC
458 N	PALISADES INSTITUTE	51 N	S R I INTERNATIONAL
470 B	PARAMO DEVELOPMENT CORP	259 N	SAN DIEGO STATE COLLEGE FOUNDATION
123 B	PARSONS RALPH M CO INC	81 E	SANDERS ASSOCIATES INC
194 B	PATTERN ANALYSIS & RECOGNITION CO	215 E	SANTA BARBARA RESEARCH CENTER
340 B	PEAT MARWICK MITCHELL & CO	305 E	SANTA FE CORP
111 N	PENNSYLVANIA STATE UNIVERSITY	302 B	SCHAFFER M J ASSOCIATES INC
189 N	PENNSYLVANIA UNIVERSITY OF	44 E	SCIENCE APPLICATIONS INC
293 B	PERCEPTRONICS INC	244 E	SCOPE ELECTRONICS INC
105 B	PERKIN ELMER CORP	326 E	SEACO INC
289 B	PHOTO SONICS INC	431 B	SEDCO SYSTEMS INC
373 B	PHYSICAL DYNAMICS INC	225 E	SEMCOR INC
379 B	PHYSICAL SCIENCES CORP	342 E	SERV AIR INC
164 B	PHYSICS INTERNATIONAL CO	425 E	SHIP SYSTEMS INC
401 B	PINSON ASSOCIATES INC	499 B	SHOCK HYDRODYNAMICS INC
391 N	PITTSBURGH UNIVERSITY OF	323 B	SIERRACIN CORP
139 B	PLANNING RESEARCH CORP	300 E	SIMULATION PHYSICS INC
212 B	PLANNING SYSTEMS INC	52 E	SINGER CO
116 B	PNEUMC CORP	290 N	SMITHSONIAN INSTITUTION
221 B	POLAR RESEARCH LABORATORY INC	206 E	SOFTECH INC
143 B	POTOMAC RESEARCH INC	396 N	SCOUTHEASTERN CTR ELECT ENGR EDUC
194 B	PRESEARCH INC	98 N	SOUTHERN CALIFORNIA UNIVERSITY OF
284 N	PRINCETON UNIVERSITY	463 N	SOUTHERN METHODIST UNIVERSITY OF
195 B	PROTOTYPE DEVELOPMENT INC	213 N	SOUTHERN RESEARCH INSTITUTE
398 B	PULSEPCHER SYSTEMS INC	130 N	SOUTHWEST RESEARCH INSTITUTE
179 N	PURDUE RESEARCH FOUNDATION	241 E	SPACE DATA CORP
254 B	QUEST RESEARCH CORP	495 E	SPACE MICROWAVE LABORATORIES INC
402 B	QUESTRON CORP	434 E	SPACE VECTOR CORP

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INDEX OF 500 LARGEST MILITARY
PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,
TEST AND EVALUATION WORK
FISCAL YEAR 1977

RANK * LIST *	CONTRACTOR	RANK * LIST *	CONTRACTOR
218 B	SPARTAN CORP	43 N	TEXAS UNIVERSITY OF
219 B	SPEARS ASSOCIATES INC	25 B	TEXTRON INC
298 B	SPECTRA RESEARCH SYSTEMS INC	85 B	THICKOL CORP
388 B	SPECTRONICS CORP	103 B	TRACOR INC
476 N	SPEECH COMMUNICATIONS RESEARCH LAB	390 B	TRACOR MARINE INC
29 B	SPERRY RAND CORP	484 B	THIAD INC
96 N	STANFORD UNIVERSITY	186 B	U T L CORP
145 B	STEARNS ROGER INC	322 B	ULTRASYSTEMS INC
343 B	STEIN ASSOCIATES INC	450 B	UNDERSEA RESEARCH CORP
478 H	STERLING WALTER V INC	395 B	UNI SYSTEMS INC
240 N	STEVENS INSTITUTE OF TECHNOLOGY	435 B	UNIFLITE INC
27 B	SUMMA CORP	455 B	UNION CARBIDE CORP
449 B	SUPERIOR STEEL CO & TRIM CO INC	442 B	UNITECH INC
397 B	SUSQUEHANNA CORP	236 N	UNITED STATES COMMERCE DEPT
479 B	SUTRON CORP	204 N	UNITED STATES ENERGY DEPT
366 B	SYNECTICS CORP	245 N	UNITED STATES NATL AERO SPACE AGY
283 N	SYRACUSE RESEARCH CORP	190 N	UNITED STATES SMALL BUSINESS ADMIN
232 N	SYRACUSE UNIVERSITY	12 B	UNITED TECHNOLOGIES CORP
50 B	SYSTEM DEVELOPMENT CORP	172 N	UTAH STATE UNIVERSITY
472 B	SYSTEM ENHANCEMENT SERVICES CO INC	365 N	UTAH UNIVERSITY OF
121 B	SYSTEM PLANNING CORP	127 B	VARIAN ASSOCIATES
312 B	SYSTEMATICS GENERAL CORP	283 B	VEDA INC
92 B	SYSTEMS CONSULTANTS INC	457 N	VIRGINIA POLYTECHNIC INSTITUTE
135 B	SYSTEMS CONTROL INC	349 N	VIRGINIA UNIVERSITY OF
268 B	SYSTEMS ENGINEERING LABORATORIES	368 B	VISIDYNE INC
267 B	SYSTEMS EXPLORATION INC	62 B	VOUGHT CORP
353 B	SYSTEMS PLANNING & ANALYSIS INC	426 B	VREDENBURG R M & CO
42 B	SYSTEMS RESEARCH LABORATORIES INC	392 B	WAGNER DANIEL M ASSOCIATES INC
133 B	SYSTEMS SCIENCE & SOFTWARE	99 N	WASHINGTON UNIVERSITY OF
10 B	T R W INC	224 B	WATKINS JOHNSON CO
256 B	TEAGUE WALTER DORWIN	490 N	WAYNE STATE UNIVERSITY
477 B	TECHNITROL INC	246 B	WEICLINGER ASSOCIATES CONSULT ENGR
226 B	TECHNOLOGY INC	329 N	WENTWORTH INSTITUTE
122 B	TECHNOLOGY SERVICE CORP	76 B	WESTERN ELECTRIC CO INC
433 B	TECHPLAN CORP	15 B	WESTINGHOUSE ELECTRIC CORP
416 B	TECOLOTE RESEARCH INC	374 B	WESTON INSTRUMENTS INC
78 B	TELEDYNE BROWN ENGINEERING	448 B	WHEELERS INDUSTRIES INC
132 B	TELEDYNE C A E	494 B	WHITAKER CORP
336 B	TELEDYNE INC	258 B	WHITE ENGINES INC
56 B	TELEDYNE INDUSTRIES INC	228 B	WHITTAKER CORP
405 B	TELEDYNE ISOTOPES	70 B	WILCOX ELECTRIC CO INC
411 B	TELEDYNE LEWISBURG	53 B	WILLIAMS RESEARCH CORP
271 B	TELEDYNE M E C	199 N	WISCONSIN UNIVERSITY OF
468 B	TELEPHONICS	112 N	WOODS HOLE OCEANOGRAPHIC INST
355 N	TENNESSEE UNIVERSITY OF	410 N	WRIGHT STATE UNIVERSITY
360 B	TENSOR INDUSTRIES INC	126 B	XEROX CORP
375 B	TERRA TEK INC	230 B	XONICS INC
153 B	TETRA TECH INC	461 B	XYBION CORP
361 N	TEXAS A & M UNIVERSITY	231 N	YALE UNIVERSITY
20 B	TEXAS INSTRUMENTS INC	307 B	YOUNG ARTHUR & CO

* B = BUSINESS FIRM
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SECTION I - J. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
1	ROCKWELL INTERNATIONAL CORP ANALBIA CALIFORNIA	513,574 *		MCDONNELL DUGLAS CORP LORRY AFB COLORADO	2,873
	CANOGA PARK CALIFORNIA	55,047		FITZSVILLE FLORIDA	473
	COMNEY CALIFORNIA	13,591		ST CHARLES MISSOURI	2,575
	LTS ANGELES CALIFORNIA	16,955		ST LOUIS MISSOURI	353,015
	NEWPORT BEACH CALIFORNIA	350,502		KIRTLAND AFB NEW MEXICO	1,111
	SEAL BEACH CALIFORNIA	4,422			
	THOUSAND OAKS CALIFORNIA	25,094	5	BOEING CO MUNTSVILLE ALABAMA	489,419 *
	CEGAR RAPIDS IOWA	1,707		VANDENBERG AFB CALIFORNIA	1,039
	GRIFFISS AFB NEW YORK	4,502		WICHITA KANSAS	17,571
	COLUMBUS OHIO	415		KIRTLAND AFB NEW MEXICO	5,252
	WRIGHT PATTERS OHIO	32,452		ROME NEW YORK	139
	TULSA OKLAHOMA	155		HOUSTON TEXAS	134
	ADDISON TEXAS	200		EVERETT WASHINGTON	325
	MCGRESSOR TEXAS	1,135		KENT WASHINGTON	66,025
	RICHARDSON TEXAS	461		RENTON WASHINGTON	12,155
	ARLINGTON VIRGINIA	3,076		SEATTLE WASHINGTON	2,940
	MCLEAN VIRGINIA	1,233			384,269
		193			
2	GENERAL ELECTRIC CO REDSTONE ARSEN ALABAMA	510,850 *	6	LOCKHEED MISSILES & SPACE CO INC MUNTSVILLE ALABAMA	472,437 *
	WILLIAMS AFB ARIZONA	110		PALO ALTO CALIFORNIA	660
	PLASANTON CALIFORNIA	969		SUNNYVALE CALIFORNIA	3,184
	SANTA BARBARA CALIFORNIA	20			463,997
	SUNNYVALE CALIFORNIA	2,696	7	HUGHES AIRCRAFT CO TUCSON ARIZONA	318,071 *
	GROTON CONN	66		CANOGA PARK CALIFORNIA	311
	WASHINGTON DC	201		CARLSBAD CALIFORNIA	131,641
	DAYTONA BEACH FLORIDA	289		CULVER CITY CALIFORNIA	411
	GAINESVILLE FLORIDA	1,397		EL SEGUNDO CALIFORNIA	73,647
	BEDFORD MASS	21		FULLERTON CALIFORNIA	12,967
	LYNN MASS	2,439		LOS ANGELES CALIFORNIA	87,405
	PITTSFIELD MASS	1,320		MALIBU CALIFORNIA	1,395
	WEST LYNN MASS	11,574		NEWPORT BEACH CALIFORNIA	4,798
	WILLIAMSTOWN MASS	175,317		OCEANSIDE CALIFORNIA	1,024
	WILMINGTON MASS	61		POINT MUGU CALIFORNIA	75
	BINGHAMTON NEW YORK	441		SAN DIEGO CALIFORNIA	595
	JOHNSON CITY NEW YORK	25		TORRANCE CALIFORNIA	509
	WISKEYNA NEW YORK	272		TYNDALL AFB FLORIDA	2,404
	NORTH SYRACUSE NEW YORK	51		WARMISTER PA	125
	SCHENECTADY NEW YORK	20			113
	SYRACUSE NEW YORK	83,488	8	RAYTHEON CO SHENYA AFS ALASKA	242,553 *
	UTICA NEW YORK	27,446		BARSTAD CALIFORNIA	384
	CINCINNATI OHIO	4,785		GOLETA CALIFORNIA	169
	EVANSTON OHIO	114,497		ANDOVER MASS	3,755
	WRIGHT PATTERS OHIO	12,057		BEDFORD MASS	5,169
	ERIE PA	120		LOWELL MASS	153,336
	KING OF PRUSSIA PA	67		NORWODD MASS	3,539
	PHILADELPHIA PA	33,754		SUDBURY MASS	19
	VALLEY FORGE PA	34,023		WALTHAM MASS	23,633
	BURLINGTON VERMONT	435		MAYLAND MASS	25,347
	ARLINGTON VIRGINIA	2,541		WEST ANJOVER MASS	18,057
		491		PORTSMOUTH RI	94
3	GENERAL DYNAMICS CORP YUMA ARIZONA	497,524 *		ARLINGTON VIRGINIA	5,073
	POMONA CALIFORNIA	650	9	MARTIN MARIETTA CORP VANDENBERG AFB CALIFORNIA	265,400 *
	SAN CLEMENTE I CALIFORNIA	61,784		DENVER COLORADO	17,179
	SAN DIEGO CALIFORNIA	97		ORLANDO FLORIDA	32,374
	VANDENBERG AFB CALIFORNIA	93,789		FORT GORDON GEORGIA	152,331
	GROTON CONN	24,850		BALTIMORE MARYLAND	50
	FORT POLK LOUISIANA	32,060			325
	DJINCY MASS	189	10	T R W INC MUNTSVILLE ALABAMA	172,915 *
	ALBUQUERQUE NEW MEXICO	1,000		LAMDALE CALIFORNIA	1,439
	KIRTLAND AFB NEW MEXICO	440		REDONDO BEACH CALIFORNIA	1,029
	FORT WORTH TEXAS	1,230		SAN CLEMENTE CALIFORNIA	156,600
	TACOMA WASHINGTON	241,430		SAN DIEGO CALIFORNIA	312
		70		VANDENBERG AFB CALIFORNIA	741
4	MCDONNELL DUGLAS CORP CUPERTINO CALIFORNIA	492,082 *		ALBUQUERQUE NEW MEXICO	1,482
	EDWARDS AFB CALIFORNIA	127		CLEVELAND OHIO	1,092
	MUNTINGTON BEA CALIFORNIA	73		WRIGHT PATTERS OHIO	783
	LAMPY CALIFORNIA	105,309		MCLEAN VIRGINIA	4,254
	LONG BEACH CALIFORNIA	65			
	MONTROVIA CALIFORNIA	25,324			
	SANTA MONICA CALIFORNIA	1,325			
	TORRANCE CALIFORNIA	25			
		123			

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

SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	TENS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	TENS OF DOLLARS
11	INTERNATIONAL BUSINESS MACHINE CO GERMANY	165,362 *		WESTINGHOUSE ELECTRIC CORP CHESWICK PA	1,194
	MUNTSVILLE ALABAMA	3,360		EAST PITTSBURG PA	102
	LOS ANGELES CALIFORNIA	349		LARGE PA	305
	SAN JOSE CALIFORNIA	396		PITTSBURGH PA	3,595
	SUNNYVALE CALIFORNIA	146		WARMINSTER PA	25
	THOUSAND OAKS CALIFORNIA	1,034		WEST HIFFLIN PA	56,092
	VANDENBERG AFB CALIFORNIA	346		ARLINGTON VIRGINIA	67
	WESTLAKE VILLA CALIFORNIA	4,435	18	LOCKHEED AIRCRAFT CORP BURBANK CALIFORNIA	83,617 *
	BOULDER COLORADO	10		ONTARIO CALIFORNIA	48,995
	WASHINGTON DC	1,392		PALO ALTO CALIFORNIA	223
	CAPE CANAVERAL FLORIDA	110		REDLANDS CALIFORNIA	93
	GAITHERSBURG MARYLAND	1,403		SAUGUS CALIFORNIA	34
	ROCKVILLE MARYLAND	15		SUNNYVALE CALIFORNIA	219
	MADISON NEW JERSEY	31		MARIETTA GEORGIA	5,323
	OSWEGO NEW YORK	551		HILL AFB TEXAS	28,292
	OMEGA NEW YORK	60,224			504
	YORKTOWN HTS NEW YORK	3,581	19	ARJ INC ARNOLD EDC TENNESSEE	78,432 *
	WRIGHT PATTERSON OHIO	275			74,432
	AUSTIN TEXAS	10	20	TEXAS INSTRUMENTS INC MUNTSVILLE ALABAMA	76,106 *
	FORT SAM HUST TEXAS	108		RIDGECREST ALABAMA	143
	HOUSTON TEXAS	100		DALLAS TEXAS	294
	ARLINGTON VIRGINIA	2,450		ALEXANDRIA VIRGINIA	30
	MANASSAS VIRGINIA	43,349			75,134
	NORFOLK VIRGINIA	58			563
12	UNITED TECHNOLOGIES CORP EDWARDS AFB CALIFORNIA	157,675 *	21	NORTHROP CORP ANAHIM CALIFORNIA	75,408 *
	SAN JOSE CALIFORNIA	31		MANTHORNE CALIFORNIA	14,722
	SUNNYVALE CALIFORNIA	1,359		NEWBURY PARK CALIFORNIA	48,169
	EAST HARTFORD CONN	24,829		EGLIN AFB FLORIDA	525
	HARTFORD CONN	29,995		DES PLAINES ILLINOIS	15
	NORFOLK CONN	203		ROLLING MEADOW ILLINOIS	394
	NORWALK CONN	464		NORWOOD MASS	5,831
	SCOTT WINDSOR CONN	1,392		ARLINGTON VIRGINIA	4,431
	STRATFORD CONN	215			351
	WINDSOR LOCKS CONN	75,408	22	G T E SYLVANIA INC SIERRA VISTA ARIZONA	74,134 *
	WEST PALM BEACH FLORIDA	1,173		LOS ANGELES CALIFORNIA	4,891
	KIRTLAND AFB NEW MEXICO	28,546		MOUNTAIN VIEW CALIFORNIA	761
		150		NEEDHAM MASS	2,647
13	R C A CORP BAHAMAS	149,853 *		NEEDHAM HEIGHT MASS	29,825
	T T PAC IS FLORIDA	5,528		MALDEN MASS	9,832
	SATELLITE BEAC FLORIDA	11,051		SPRINGFIELD VIRGINIA	24,945
	BURLINGTON MASS	29		CLAM LAKE WISCONSIN	65
	CAMDEN NEW JERSEY	8,344			322
	CHERRY HILL NEW JERSEY	43,780			883
	HIGHTSTOWN NEW JERSEY	317	23	GRUMMAN AEROSPACE CORP CHINA LAKE CALIFORNIA	69,543 *
	MOORESTOWN NEW JERSEY	629		POINT MUGU CALIFORNIA	323
	PRINCETON NEW JERSEY	74,924		BETHPAGE NEW YORK	15
	SOMERVILLE NEW JERSEY	1,584		CALVERTON NEW YORK	64,169
	WHITE SANDS MS NEW MEXICO	1,592			35
	LANCASTER PA	1,080	24	FORD AEROSPACE & COMMUNICATIONS MOUNTAIN VIEW CALIFORNIA	64,365 *
	MEADOWLANDS PA	275		NEWPORT BEACH CALIFORNIA	134
	WARMINSTER PA	91		PALO ALTO CALIFORNIA	48,905
	SPRINGFIELD VIRGINIA	87		THENTYNINE PAL CALIFORNIA	12,671
		690		VANDENBERG AFB CALIFORNIA	795
14	CHRYSLER CORP MUNTSVILLE ALABAMA	146,089 *		BEAUFORT MASS	1,005
	NEW ORLEANS LOUISIANA	151		DEARBORN MICHIGAN	45
	CENTER LINE MICHIGAN	414		PHILADELPHIA PA	93
	DETROIT MICHIGAN	57		WILLOW GROVE PA	17
	STERLING MICHIGAN	950			731
	STERLING HEIGHT MICHIGAN	3,395	25	TEXTRON INC FORT HUACHUCA ARIZONA	61,427 *
	WARREN MICHIGAN	120,236		TUCSON ARIZONA	855
		21,800		BELMONT CALIFORNIA	2,635
15	WESTINGHOUSE ELECTRIC CORP CAMP PENDLETON CALIFORNIA	134,053 *		SYLMAR CALIFORNIA	28,514
	SUNNYVALE CALIFORNIA	37		VALENCIA CALIFORNIA	216
	EGLIN AFB FLORIDA	13,101		WATERBURY CONN	263
	ANNAPOLIS MARYLAND	63			34
	BALTIMORE MARYLAND	1,936			204
	MUNT VALLEY MARYLAND	60,987			
	MORSEHEADS NEW YORK	150			
	LIMA OHIO	172			
		146			

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FISCAL YEAR 1977

AMOUNT CANCELLATIONS EXCEED NEW AWARDS
BUSINESS

SECTION I - J. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
42	SYSTEMS RESEARCH LABORATORIES INC	29,144 *	48	BENDIX CORP	23,773 *
	RESEDA CALIFORNIA	151		CANOSA PARK CALIFORNIA	22
	EGLIN AFB FLORIDA	19		NORTH HOLLYWOOD CALIFORNIA	7,939
	DAYTON OHIO	3,605		SYLMAR CALIFORNIA	2,841
	MINNHAM OHIO	112		FORT LAUDERDALE FLORIDA	15
	WRIGHT PATTERS OHIO	24,944		MISHAWAKA INDIANA	1,162
	NEWPORT NEWS VIRGINIA	292		SOUTH BEND INDIANA	65
				DAVENPORT IOWA	262
44	SCIENCE APPLICATIONS INC	27,078 *		BALTIMORE MARYLAND	2,683
	HUNTSVILLE ALABAMA	3,965		COLUMBIA MARYLAND	1,373
	TUCSON ARIZONA	50		TOWSON MARYLAND	4,435
	BERKELEY CALIFORNIA	124		SOUTHFIELD MICHIGAN	476
	EL SEGUNDO CALIFORNIA	1,277		EATONTOWN NEW JERSEY	293
	LA JOLLA CALIFORNIA	11,571		PETERBORO NEW JERSEY	1,479
	LOS ANGELES CALIFORNIA	156		UTICA NEW YORK	25
	OAKLAND CALIFORNIA	70			
	PALO ALTO CALIFORNIA	54	49	GENERAL MOTORS CORP	23,722 *
	PLEASANTON CALIFORNIA	42		GOLETA CALIFORNIA	3,329
	SAN DIEGO CALIFORNIA	835		INDIANAPOLIS INDIANA	12,781
	SAN FRANCISCO CALIFORNIA	53		KOKOMO INDIANA	297
	SANTA ANA CALIFORNIA	294		DETROIT MICHIGAN	23
	SUNNYVALE CALIFORNIA	99		WARREN MICHIGAN	5,297
	VANDENBERG AFB CALIFORNIA	544			
	COLORADO SPRGS COLORADO	388	50	SYSTEM DEVELOPMENT CORP	23,115 *
	DENVER COLORADO	185		HUNTSVILLE ALABAMA	5,153
	ENGLEWOOD COLORADO	165		LOS ANGELES CALIFORNIA	91
	WASHINGTON DC	2,493		SANTA CLARA CALIFORNIA	331
	ROLLING MEADOWS ILLINOIS	113		SANTA MONICA CALIFORNIA	6,323
	REDFORD MASS	57		SUNNYVALE CALIFORNIA	333
	BOSTON MASS	37		VANDENBERG AFB CALIFORNIA	3,187
	ANN ARBOR MICHIGAN	165		WASHINGTON DC	255
	LAS VEGAS NEVADA	272		FORT LEAVENWORTH KANSAS	533
	ALBUQUERQUE NEW MEXICO	276		WEST LONG BRAN NEW JERSEY	1,162
	ARLINGTON VIRGINIA	693		DAYTON OHIO	141
	MCLEAN VIRGINIA	3,090		HAMPTON VIRGINIA	2,466
				MCLEAN VIRGINIA	2,473
45	CONTROL DATA CORP	26,300 *			
		5,630	52	SINGER CO	22,977 *
	FULLERTON CALIFORNIA	22-		LUKE AFB ARIZONA	629
	MONTREY CALIFORNIA	20		WILLIAMS AFB ARIZONA	767
	SAN DIEGO CALIFORNIA	2,867		GLENDALE CALIFORNIA	2,051
	SANTA MONICA CALIFORNIA	90		LOS ANGELES CALIFORNIA	135
	SUNNYVALE CALIFORNIA	36		SUNNYVALE CALIFORNIA	539
	VANDENBERG AFB CALIFORNIA	194		FAIRFIELD NEW JERSEY	237
	HONOLULU CITY HAWAII	289-		LITTLE FALLS NEW JERSEY	10,900
	ROCKVILLE MARYLAND	122		WAYNE NEW JERSEY	113
	REDFORD MASS	1,472		PHILADELPHIA NEW YORK	2,130
	MINNEAPOLIS MINNESOTA	15,730		WRIGHT PATTERS OHIO	1,415
	ARLINGTON VIRGINIA	95		STATE COLLEGE PA	590
	HAMPTON VIRGINIA	136			
	VIRGINIA BEACH VIRGINIA	95	53	WILLIAMS RESEARCH CORP	20,509 *
				WALLED LAKE MICHIGAN	20,569
46	INTERSTATE ELECTRONICS CORP	25,647 *			
	ANAHEIM CALIFORNIA	25,647	55	MOTOROLA INC	19,127 *
				PHOENIX ARIZONA	57
47	LITTON SYSTEMS INC	25,501 *		SCOTTSDALE ARIZONA	19,073
	CANOSA PARK CALIFORNIA	6,103	56	TELEDYNE INDUSTRIES INC	17,763 *
	SAN CARLOS CALIFORNIA	754		NORTHRIIDGE CALIFORNIA	425
	SUNNYVALE CALIFORNIA	265		SAN DIEGO CALIFORNIA	11,675
	VALLEJO CALIFORNIA	240		MUSKEGON MICHIGAN	333
	VAN NUYS CALIFORNIA	9,495		WHITE SANDS MS NEW MEXICO	293
	WOODLAND HILLS CALIFORNIA	3,510		GARLAND TEXAS	1,732
	WASHINGTON DC	21		HILL AFB TEXAS	45-
	EGLIN AFB FLORIDA	88		ALEXANDRIA VIRGINIA	2,468
	COLLEGE PARK MARYLAND	4,073	57	KENTRON HAWAII LTD	17,400 *
	MORRIS PLAINS NEW JERSEY	33			
	MELVILLE NEW YORK	2,924		EDWARDS AFB CALIFORNIA	14,052
	DREXEL HILL PA	43		HILL AFB TEXAS	1,019
	FORT BLISS TEXAS	14			1,078
	SALT LAKE CITY UTAH	55-			

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SECTION I - J. S. BUSINESS FIRMS
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
58	AMERICAN BELL INTERNATIONAL INC SOUTH PLAINFIELD NEW JERSEY	16,841 *	73	GALSPAN CORP LOS ANGELES CALIFORNIA SAN DIEGO CALIFORNIA BUFFALO NEW YORK	15,449 * 3,345 21 10,083
59	Q D M CORP HUNTSVILLE ALABAMA FORT KNOX KENTUCKY PICKENS MISS ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO MOLEMAN VIRGINIA VIENNA VIRGINIA	16,783 * 118 401 610 51 3,847 442 7,081 4,239	74	BUNKER RAMO CORP WESTLAKE VILLA CALIFORNIA BROADVIEW ILLINOIS WRIGHT PATTERS OHIO	15,015 * 12,054 53 705
60	E SYSTEMS INC ST PETERSBURG FLORIDA HUNTINGTON INDIANA GREENVILLE TEXAS SALT LAKE CITY UTAH FALLS CHURCH VIRGINIA	16,517 * 295 65 259 23 15,873	76	WESTERN ELECTRIC CO INC T T PAC IS NEW JERSEY WHIPPANY NEW YORK WINSTON SALEM NCAR	12,528 * 53 12,163 72- 385
61	GENERAL RESEARCH CORP HUNTSVILLE ALABAMA SANTA BARBARA CALIFORNIA FORT WALTON BE FLORIDA GRIFFISS AFB NEW YORK ARLINGTON VIRGINIA MOLEMAN VIRGINIA	15,513 * 446 215 4,925 194 40 755 3,937	77	AVCO EVERETT RESEARCH LABORATORY MAUI HAWAII EVERETT MASS KIRTLAND AFB NEW MEXICO	12,344 * 3,677 9,584 39
62	VOUGHT CORP STERLING HEIGHT MICHIGAN WARREN MICHIGAN WRIGHT PATTERS OHIO DALLAS TEXAS GRAND PRAIRIE TEXAS	15,407 * 449 485 425 13,034 2,014	78	TELEDYNE BROWN ENGINEERING HUNTSVILLE ALABAMA FORT WALTON BE FLORIDA	11,915 * 11,093 216
64	MAGNAVOX GOVT & INDUSTRIAL ELEC CO TORRANCE CALIFORNIA FORT WAYNE INDIANA HAWTHAY NEW JERSEY PHILADELPHIA PA	15,387 * 1,325 12,356 1,306 400	79	KAMAN AEROSPACE CORP BLOOMFIELD CONN	11,857 * 11,457
65	EMERSON ELECTRIC CO ST LOUIS MISSOURI	15,323 * 15,329	81	SANDERS ASSOCIATES INC VANDENBERG AFB CALIFORNIA WASHINGTON DC MANCHESTER NH MERRIMACK NH NASHUA NH	11,715 * 13 535 43 11,077
66	HERCULES INC WILMINGTON DELAWARE ESLIN AFB FLORIDA COLLETTA MARYLAND PINTO MARYLAND MAGNA UTAH ROCKET CENTER WVA	15,283 * 69 200 20 11 7,560 7,443	82	FAIRCHILD INDUSTRIES INC GERMANTOWN MARYLAND FARMINGDALE NEW YORK	11,059 * 3,092 8,067
67	SARRETT CORP PHOENIX ARIZONA LOS ANGELES CALIFORNIA TORRANCE CALIFORNIA RELMAR NEW JERSEY	14,937 * 2,714 65 11,988 173	84	R & D ASSOCIATES LOS ANGELES CALIFORNIA MARINA DEL REY CALIFORNIA SANTA MONICA CALIFORNIA KIRTLAND AFB NEW MEXICO	11,047 * 35 9,381 647 634
69	HERCULES INC WILMINGTON DELAWARE ESLIN AFB FLORIDA COLLETTA MARYLAND PINTO MARYLAND MAGNA UTAH ROCKET CENTER WVA	15,283 * 69 200 20 11 7,560 7,443	85	THIOCOL CORP HUNTSVILLE ALABAMA ELKTON MARYLAND BRIGHAM CITY UTAH OGDEN UTAH	10,943 * 3,142 1,454 7,375 15
70	WILCOX ELECTRIC CO INC KANSAS CITY MISSOURI	14,835 * 14,835	86	GOLT BERANEK & NEWMAN INC CANDAGE PARK CALIFORNIA CAMBRIDGE MASS ALEXANDRIA VIRGINIA ARLINGTON VIRGINIA	10,904 * 191 4,423 145 59
71	HARRIS CORP MELBOURNE FLORIDA PALM BEACH FLORIDA PATRICK AFB FLORIDA	13,930 * 4,277 9,603 50	87	E S L INC SUNNYVALE CALIFORNIA	10,408 * 10,408
72	DYNALASTRON CORP POINT AUGUST CALIFORNIA HARKINS SANDS HAWAII ALBUQUERQUE NEW MEXICO HOLLIDAY AFB NEW MEXICO KIRTLAND AFB NEW MEXICO WHITE SANDS MS NEW MEXICO WRIGHT PATTERS OHIO	13,873 * 645 360 1,341 2,649 715 7,495 188	91	BALL BROS RESEARCH CORP BOULDER COLORADO WASHINGTON DC	9,108 * 4,044 70
			92	SYSTEMS CONSULTANTS INC OXNARD CALIFORNIA SAN DIEGO CALIFORNIA WASHINGTON DC JERICHO NEW YORK WRIGHT PATTERS OHIO ARLINGTON VIRGINIA	9,108 * 1,05 44 9,437 42 35 40

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SECTION I - U. S. BUSINESS FIRMS
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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
93	CAMPBELL ALLEN M YUMA KIRTLAND AFB	ARIZONA NEW MEXICO	110	HAZELTINE CORP AVON BRAINTREE QUINCY GREENLAWN	MASS MASS MASS NEW YORK
94	ITEK CORP SUNNYVALE LEXINGTON	CALIFORNIA MASS	113	E S & G INC YUMA SAN DIEGO ROCKVILLE SALEM NELLIS AFB ALBUQUERQUE KIRTLAND AFB	ARIZONA CALIFORNIA MARYLAND MASS NEVADA NEW MEXICO NEW MEXICO
95	H R B SINGER INC WRIGHT PATTERS STATE COLLEGE RESTON	OHIO PA VIRGINIA	114	LORAL CORP BRONX YONKERS	NEW YORK NEW YORK
97	CINCINNATI ELECTRONICS CINCINNATI EVENDALE	OHIO OHIO	116	PNEUMO CORP KALAMAZOO	MICHIGAN
100	LOGISON INC HAWTHORNE SAN DIEGO SAN PEDRO TORRANCE REDFORD LEXINGTON WRIGHT PATTERS	CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA MASS MASS OHIO	117	CLARK EQUIPMENT CO BENTON HARBOR	MICHIGAN
101	MAGNAVOX CO TORRANCE FORT WAYNE SILVER SPRING PHILADELPHIA	CALIFORNIA INDIANA MARYLAND PA	118	GOODYEAR AEROSPACE CORP LITCHFIELD PAR AKRON	ARIZONA OHIO
102	MINE SAFETY APPLIANCES CALLERY PITTSBURGH	CO PA PA	121	SYSTEM PLANNING CORP HUNTSVILLE FORT KNOX ARLINGTON	ALABAMA KENTUCKY VIRGINIA
103	TRACOR INC WASHINGTON PANAMA CITY PORT EVERGLADE PATUXENT RIVER ROCKVILLE AUSTIN	DC FLORIDA FLORIDA MARYLAND MARYLAND TEXAS	122	TECHNOLOGY SERVICE CORP SANTA MONICA SILVER SPRING	CALIFORNIA MARYLAND
104	PHYSICS INTERNATIONAL CO SAN LEANDRO	CALIFORNIA	123	PARSONS RALPH M CO INC PASADENA	CALIFORNIA
105	PERKIN ELMER CORP MOUNTAIN VIEW POMONA DANBURY NORWALK WILTON CHICAGO	CALIFORNIA CALIFORNIA CONN CONN CONN ILLINOIS	124	FUGRO NATIONAL INC LONG BEACH	CALIFORNIA
106	B F H SERVICES CO FORT ORD FORT LEAVENWORTH WRIGHT PATTERS FORT HOOD MCLEAN VIENNA	CALIFORNIA KANSAS OHIO TEXAS VIRGINIA VIRGINIA	125	MARQUARDT CO VAN NUYS	CALIFORNIA
107	ANALYTIC SCIENCES CORP READING	MASS	126	XEROX CORP PALO ALTO PASADENA WEBSTER NORFOLK SPRINGFIELD	CALIFORNIA CALIFORNIA NEW YORK VIRGINIA VIRGINIA
108	KAMAN SCIENCES CORP COLORADO SPRGS BURLINGTON	COLORADO MASS	127	VARIAN ASSOCIATES PALO ALTO SAN CARLOS SANTA CLARA CHEVERLY BEVERLY SALT LAKE CITY	CALIFORNIA CALIFORNIA CALIFORNIA MARYLAND MASS UTAH
			128	LEAR SIEGLER INC ANAHEIM SANTA MONICA GRAND RAPIDS	CALIFORNIA CALIFORNIA MICHIGAN
			129	FLIGHT SYSTEMS INC CHINA LAKE MOJAVE NEWPORT BEACH POINT MUGU WHITE SANDS MS ARLINGTON	CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA NEW MEXICO VIRGINIA

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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
131	DEVELOPMENT ENGINEERING INC. GROUND FUNCTION PITTSBURGH	4,572 *	149	LOCKHEED ELECTRONICS CO. INC. FORT MONMOUTH NEW JERSEY	3,761 *
132	TELETYPE CO. & S. TOLEDO OHIO	4,435 *	150	MISSION RESEARCH CORP. SANTA BARBARA CALIFORNIA	3,723 *
133	SYSTEMS SCIENCE & SOFTWARE HAWAII LA JOLLA SAN DIEGO NORFOLK	4,399 *	151	ALBUQUERQUE KIRTLAND AFB NEW MEXICO	3,636 *
134	GRUPT INC. SAN DIEGO SUNNYVALE ROLLING MEADOW GLEN HURON CLEVELAND MCDONNELLSVILLE	4,371 *	152	GAJRE CORP. DORAVILLE GEORGIA	3,635 *
135	SYSTEMS CONTROL INC. PALO ALTO CALIFORNIA	4,349 *	153	TETRA TECH INC. PASADENA SAN DIEGO ARLINGTON	3,569 *
136	A & I CORP. BALTIMORE COCKEYSVILLE MARYLAND	4,183 *	154	CURTIS WRIGHT CORP. WOOD RIDGE BUFFALO NEW YORK	3,544 *
137	PLANNING RESEARCH CORP. WASHINGTON OFFUTT AFB SAN ANTONIO MOBILE	4,180 *	155	DECISIONS & DESIGNS INC. MCLEAN VIRGINIA	3,443 *
138	FAIRCHILD CAMERA & INSTRUMENT CORP. PALO ALTO SYOSSET NEW YORK	4,124 *	156	KETRON INC. WAYNE ARLINGTON VIRGINIA	3,335 *
139	COMCO ELECTRONICS CORP. FULLERTON SPAIN CALIFORNIA	3,997 *	157	INTERNATIONAL LASER SYSTEMS INC. ORLANDO KIRTLAND AFB FLORIDA NEW MEXICO	3,327 *
140	POTOMAC RESEARCH INC. PANAMA CITY MCLEAN DUNSTON	3,970 *	158	DYNAMICS RESEARCH CORP. WILMINGTON DESS	3,273 *
141	MAXWELL LABORATORIES INC. LOS ANGELES SAN DIEGO WOBURN ALBUQUERQUE	3,949 *	159	BENDIX FIELD ENGINEERING CORP. COLUMBIA MERCURY MARYLAND NEVADA	3,229 *
142	ARINC RESEARCH CORP. SAN DIEGO SANTA ANA ANNAPOLIS	3,825 *	160	ACUREX CORP. MOUNTAIN VIEW WRIGHT PATTERS CALIFORNIA OHIO	3,207 *
143	HONEYWELL INFORMATION SYSTEMS INC. GERMANY IRAN JANTENBERG AFB ST. PETERSBURG TAMPA CAMBRIDGE MINNEAPOLIS MCLEAN	3,793 *	161	COMMAND CONTROL & COMMUNICATION LONITA MILWAUKEE SAN DIEGO CALIFORNIA CALIFORNIA CALIFORNIA	3,243 *
144	9002 ALLEN & HAMILTON INC. FORT WALTON BE SHALIMAR PETHESIA NEW SHREWSBURY WRIGHT PATTERS	3,776 *	162	DEWEY ELECTRONICS CORP. PARAMUS NEW JERSEY	3,270 *
145			163	HEAD TECHNOLOGY LABORATORIES DAYTON WRIGHT PATTERS MILL AFB OHIO OHIO UTAH	3,197 *
146			164	U T I CORP. DALLAS GERMANY TEXAS	3,112 *
147			165	9002 ALLEN APPLIED RESEARCH INC. EGGIN AFB FORT WALTON BE PETHESIA FLORIDA FLORIDA FLORIDA	3,113 *
148			166	BURROUGHS CORP. FORT MONMOUTH PAOLI NEW JERSEY PA	3,074 *

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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
170	KURAS ALTERNAN CORP FAIRFIELD ARLINGTON NEW JERSEY VIRGINIA	S 2,895 * 2,881 15	197	INTERNATIONAL HARVESTER CO SAN DIEGO CALIFORNIA MINDALE ILLINOIS BAYONNE NEW JERSEY	2,337 * 2,238 57 42
171	FORD MOTOR CO DEARBORN MICHIGAN	2,977 * 2,877	198	LOCUS INC WASHINGTON DC STATE COLLEGE PA	S 2,324 * 1,246 1,079
173	A E L SERVICE CORP WALL TOWNSHIP COLMAR LANSDALE PA PA	2,837 * 856 581 1,480	201	AUERBACH ASSOCIATES INC PHILADELPHIA PA ARLINGTON VIRGINIA	S 2,281 * 440 1,041
174	ATLANTIC RESEARCH CORP GRIFFISS AFB NEW YORK ROME NEW YORK ALEXANDRIA VIRGINIA GATNESVILLE VIRGINIA	2,781 * 35 516 1,192 1,038	203	VEDA INC SOUTHAMPTON PA ARLINGTON VIRGINIA	S 2,241 * 11 2,230
175	OPERATIONS RESEARCH INC SILVER SPRING MARYLAND	2,757 * 2,757	205	COMPTON RESEARCH INC BUFFALO NEW YORK WRIGHT PATTERS OHIO DAM NECK VIRGINIA	S 2,193 * 2,035 57 103
178	FALCON RESEARCH & DEVELOPMENT CO DENVER COLORADO BALTIMORE MARYLAND ALBUQUERQUE NEW MEXICO BUFFALO NEW YORK	2,781 * 1,488 952 88 173	206	SOFTCH INC WASHINGTON DC WALTHAM MASS	S 2,193 * 192 2,001
180	ELECTRONIC COMMUNICATIONS INC ST PETERSBURG FLORIDA	2,675 * 2,675	209	ANALYTICS INC NEW SHREWSBURY NEW JERSEY JENKINTOWN PA WILLOW GROVE PA MCLEAN VIRGINIA	S 2,111 * 301 133 1,379 295
181	CHAMBERLAIN MFG CORP WATERLOO IOWA	2,649 * 2,649	210	ANALYTICAL SYSTEMS ENGR CORP BEDFORD MASS BURLINGTON MASS	S 2,063 * 89 1,979
182	MYCOR INC WORJUN MASS	S 2,623 * 2,623	211	HYDROSCIENCE INC DALLAS TEXAS	2,065 * 2,065
183	QUINTRON SYSTEMS INC VANDENBERG AFB CALIFORNIA	S 2,591 * 2,591	212	PLANNING SYSTEMS INC MCLEAN VIRGINIA	S 2,041 * 2,041
184	PATTERN ANALYSIS & RECOGNITION CO ROME NEW YORK	S 2,583 * 2,583	214	METRIC SYSTEMS CORP FORT WALTON BE FLORIDA	S 2,031 * 2,031
185	STEARNS RYDER INC EDWARDS AFB CALIFORNIA VANDENBERG AFB CALIFORNIA	2,572 * 26 2,546	215	SANTA BARBARA RESEARCH CENTER GOLETA CALIFORNIA	2,021 * 2,021
186	CUBIC CORP SAN DIEGO CALIFORNIA	2,560 * 2,560	216	PACCAR INC RENTON WASHINGTON	2,019 * 2,019
189	INFORMATION DEV & APPLICATIONS BELTSVILLE MARYLAND RIVERDALE MARYLAND	S 2,524 * 2,178 346	218	SPARTON CORP JACKSON MICHIGAN	2,008 * 2,008
191	NEWPORT NEWS SHIPAL & DRY DOCK CO NEWPORT NEWS VIRGINIA	2,484 * 2,484	219	SPEARS ASSOCIATES INC NEWTON MASS WALTHAM MASS	S 1,987 * 182 185
193	C N R INC NEEDHAM MASS NEEDHAM HEIGHT MASS NEWTON UPPER F MASS	S 2,446 * 1,109 1,192 155	221	POLAR RESEARCH LABORATORY INC SANTA BARBARA CALIFORNIA	S 1,902 * 1,902
194	PRESEARCH INC SILVER SPRING MARYLAND ARLINGTON VIRGINIA	S 2,445 * 160 2,285	222	KECO INDUSTRIES INC CINCINNATI OHIO	S 1,901 * 1,901
195	PROTOTYPE DEVELOPMENT INC SANTA ANA CALIFORNIA	S 2,383 * 2,383	223	LITTLE ARTHUR D INC CAMBRIDGE MASS	1,901 * 1,901
196	C T F C WASHINGTON DC FALLS CHURCH VIRGINIA	S 2,362 * 60 2,302	224	WATKINS JOHNSON CO PALO ALTO CALIFORNIA GAITHERSBURG MARYLAND	1,899 * 1,874 15

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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
225	SENGOR INC CHERRY HILL MOORESTOWN NEW JERSEY NEW JERSEY	S 1,851 * 34 1,831	252	ENSCO INC SATELLITE BEAC SPRINGFIELD FLORIDA VIRGINIA	S 1,541 * 431 1,110
226	TECHNOLOGY INC CARSON LOS ANGELES DAYTON OHIO WRIGHT PATTERS ARONKS AFB SAN ANTONIO TEXAS TEXAS	1,847 * 83 95 1,073 152 123 309	253	DATRON SYSTEMS INC CHATSWORTH CALIFORNIA	S 1,534 * 1,534
228	WHITTAKER CORP CHATSWORTH NORTH HOLLYWOOD MALIBU CALIFORNIA CALIFORNIA MASS	1,842 * 1,645 75 122	254	QUEST RESEARCH CORP FORT HUACHUCA WASHINGTON ALEXANDRIA MCLEAN ARIZONA VA VIRGINIA	S 1,530 * 685 23 39 975
230	XONICS INC EL SEGUNDO LOS ANGELES VAN NUYS CALIFORNIA CALIFORNIA CALIFORNIA	S 1,831 * 735 64 1,028	255	MAYES INTERNATIONAL CORP BIRMINGHAM LEFOS ALABAMA ALABAMA	1,523 * 952 571
233	PACER SYSTEMS INC RUBLINGTON FORT WASHINGTON MASS PA	S 1,790 * 110 1,680	256	TEAGUE WALTER DORWIN ANAMETH OXNARD SUNNYVALE CALIFORNIA CALIFORNIA CALIFORNIA	S 1,514 * 395 413 300
234	M R ASSOCIATES SAN RAMON CALIFORNIA	S 1,772 * 1,772	257	INTELCOM RAD TECH SAN DIEGO CALIFORNIA	S 1,504 * 1,504
235	ALL AMERICAN INDUSTRIES INC WILMINGTON DELAWARE	1,764 * 1,764	258	WHITE ENGINES INC CANTON OHIO	1,503 * 1,503
238	HENNINGSTON DURHAM RICHARDSON SANTA BARBARA CALIFORNIA	1,746 * 1,746	260	ANALYSIS & TECHNOLOGY INC GROTON STONINGTON NORFOLK VIRGINIA BEACH CONN CONN VIRGINIA VIRGINIA	S 1,502 * 74 1,213 173 39
239	AYDIN CORP PALO ALTO VANDENBERG AFB FORT WASHINGTON NEWTON CALIFORNIA CALIFORNIA PA PA	S 1,743 * 70 1,259 75 339	263	INTERMETRICS INC CAMBRIDGE WRIGHT PATTERS MASS MASS	S 1,471 * 487 444
241	SPACE DATA CORP PHOENIX VANDENBERG AFB ARIZONA CALIFORNIA	S 1,723 * 1,505 214	266	EFFECTS TECHNOLOGY INC SANTA BARBARA CALIFORNIA	1,451 * 1,451
242	R K DYNAMICS INC SAN DIEGO ROCKVILLE CALIFORNIA MARYLAND	S 1,687 * 144 1,539	267	SYSTEMS EXPLORATION INC SAN DIEGO CALIFORNIA	S 1,423 * 1,423
243	PACIFIC SIERRA RESEARCH CORP SANTA MONICA CALIFORNIA	S 1,664 * 1,664	268	SYSTEMS ENGINEERING LABORATORIES WILLIAMS AFB FORT LAUDERDALE ARIZONA FLORIDA	S 1,417 * 525 591
244	SCOPE ELECTRONICS INC RESTON VIRGINIA	S 1,649 * 1,649	269	COMPUTER CORP OF AMERICA CAMBRIDGE MASS	S 1,406 * 1,406
246	INGO INC ENT AFB MCLEAN COLORADO VIRGINIA	S 1,635 * 725 910	271	TELEDYNE M E C PALO ALTO CALIFORNIA	1,399 * 1,399
248	BIOMETRICS INC GARLAND TEXAS	1,573 * 1,573	272	LINKABIT CORP SAN DIEGO CALIFORNIA	S 1,374 * 1,374
249	CAITECH INC SIERRA MADRE CALIFORNIA	1,571 * 1,571	273	JAYCOR DEL MAR ALEXANDRIA CALIFORNIA VIRGINIA	S 1,356 * 1,291 42
250	ALEXION CARSON CORP SANTA ANA SIOUX FALLS CALIFORNIA MASS	S 1,570 * 1,150 420	274	M R C CORP BALTIMORE HUNT VALLEY MARYLAND MARYLAND	S 1,345 * 549 735
251	AUSTIN RESEARCH ASSOCIATES INC AUSTIN TEXAS	S 1,550 * 1,550	275	FIBER MATERIALS INC BIODEFORD MAINE	S 1,340 * 1,340
			276	L T V CORP DALLAS GRAND PRAIRIE TEXAS TEXAS	1,283 * 547 547

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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
277	RICHARDSON MERRELL INC CINCINNATI OHIO	1,282 * 1,282	303	GELESICO INDUSTRIES COSTA MESA CALIFORNIA WHITE SANDS MS NEW MEXICO	1,055 * 749 305
279	AMERICAN NUCLEONICS CORP WOODLAND HILLS CALIFORNIA	S 1,246 * 1,246	305	SANTA FE CORP ALEXANDRIA VIRGINIA	S 1,041 * 1,041
280	DIKEWOOD INDUSTRIES INC WESTWOOD CALIFORNIA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO ROME NEW YORK	S 1,226 * 705 303 199 19	306	HEWLETT PACKARD CO CUPERTINO CALIFORNIA FULLERTON CALIFORNIA NORTH HOLLYWOOD CALIFORNIA PALO ALTO CALIFORNIA SAN DIEGO CALIFORNIA SANTA CLARA CALIFORNIA SANTA ROSA CALIFORNIA LOVELAND COLORADO ROCKVILLE MARYLAND LEXINGTON MASS DAYTON OHIO CORVALLIS OREGON KING OF PRUSSIA PA	1,031 * 23 15 85 335 32 69 18 11 29 15 13 267 113
281	INFORMATION SPECTRUM INC CHERRY HILL NEW JERSEY ARLINGTON VIRGINIA	S 1,196 * 963 233	307	YOUNG ARTHUR & CO WASHINGTON DC	1,027 * 1,027
282	BRUNSWICK CORP COSTA MESA CALIFORNIA MILFORD CONN DE LAND FLORIDA LINCOLN NEBRASKA	1,188 * 1,015 59 29 76	309	R C A LABORATORIES SARNOFF RES CTR PRINCETON NEW JERSEY	1,019 * 1,019
285	AMERICAN AIRLINES INC FORT WORTH UN KINGDOM TEXAS TEXAS	1,170 * 896 276	311	DECILOG INC HUNTINGTON NEW YORK MELVILLE NEW YORK DAYTON OHIO	S 1,002 * 425 562 15
286	WEIDLINGER ASSOCIATES CONSULT ENGR MENLO PARK CALIFORNIA NEW YORK NEW YORK	S 1,160 * 62 1,099	312	SYSTEMATICS GENERAL CORP FALLS CHURCH VIRGINIA MCLEAN VIRGINIA	S 1,001 * 46 957
287	HUGHES RESEARCH LABORATORIES MALIBU CALIFORNIA	1,157 * 1,157	313	BATH IRON WORKS CORP BATH MAINE	1,000 * 1,000
289	J R B ASSOCIATES INC MCLEAN VIRGINIA	1,150 * 1,150	314	D B A SYSTEMS INC INDIALANTIC FLORIDA MELBOURNE FLORIDA	S 997 * 436 561
289	PHOTO SONICS INC BURBANK CALIFORNIA TYNDALL AFB FLORIDA	S 1,143 * 1,131 12	315	MASSACHUSETTS COMPUTER ASSOCIATES SAN DIEGO CALIFORNIA WAKEFIELD MASS	S 1,000 * 195 201 794
291	ADVANCED TECHNOLOGY INC MCLEAN VIRGINIA	S 1,134 * 1,134	317	AERODYNE RESEARCH INC BEDFORD MASS BURLINGTON MASS	S 987 * 754 233
292	FARRAND OPTICAL CO INC VALHALLA NEW YORK	S 1,130 * 1,130	318	BEECH AIRCRAFT CORP BOULDER COLORADO WICHITA KANSAS WHITE SANDS MS NEW MEXICO	985 * 229 664 93
293	PERCEPTRONICS INC WOODLAND HILLS CALIFORNIA	S 1,125 * 1,125	319	METEOROLOGY RESEARCH INC ALTADENA CALIFORNIA	S 984 * 404
294	ARES INC PORT CLINTON OHIO	S 1,120 * 1,120	320	AMPEX CORP EL SEGUNDO CALIFORNIA REDWOOD CITY CALIFORNIA	983 * 23 443
295	KAISER INDUSTRIES CORP OAKLAND CALIFORNIA	1,108 * 1,108	321	DELEX SYSTEMS INC SPRINGFIELD VIRGINIA VIENNA VIRGINIA	S 957 * 40 917
296	HYDROTRONICS FALLS CHURCH VIRGINIA MCLEAN VIRGINIA	S 1,098 * 484 614	322	ULTRASYSTEMS INC IRVINE CALIFORNIA NEWPORT BEACH CALIFORNIA	S 936 * 408 25
299	SPECTRA RESEARCH SYSTEMS INC IRVINE CALIFORNIA	S 1,092 * 1,092			
300	SIMULATION PHYSICS INC BEDFORD MASS BURLINGTON MASS	S 1,087 * 264 923			
301	MCJULLEN JOHANN ASSOCIATES INC NEW YORK NEW YORK	1,074 * 1,074			
302	SCHAFER W J ASSOCIATES INC WAKEFIELD MASS WAKEFIELD MASS	S 1,059 * 888 179			

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RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
323	SIERRACIN CORP SUNAMP CALIFORNIA	929 * 929	346	EAGLE PICKER INDUSTRIES INC COLORADO SPRS COLORADO JOPLIN MISSOURI	798 * 140 658
324	MAN TECH CORP ORLANDO FLORIDA ROCKVILLE MARYLAND LIVINGSTON NEW JERSEY SPRINGFIELD NEW JERSEY NORFOLK VIRGINIA	S 926 * 60 353 331 49 133	347	CADCOM INC ANNAPOLIS MARYLAND	S 790 * 790
325	ELECTROSPACE SYSTEMS INC WICHARDSON TEXAS	S 924 * 924	350	ARGO SYSTEMS INC PALO ALTO CALIFORNIA	S 789 * 789
326	SEACI INC KAILUA VILLAGE HAWAII	S 924 * 924	351	APPLIED SCIENCE ASSOCIATES INC VALENCIA PA FORT BLISS TEXAS	S 788 * 710 79
327	ADAPTO INC GODFREY ARIZONA	S 915 * 915	352	DYNETICS INC MUNTSVILLE ALABAMA	S 783 * 783
330	OCEAN TECHNOLOGY INC RIRANK CALIFORNIA	900 * 900	353	SYSTEMS PLANNING & ANALYSIS INC ARLINGTON VIRGINIA	S 781 * 781
331	I P I CORP SAN DIEGO CALIFORNIA	S 899 * 899	354	PACIFICA TECHNOLOGY DEL MAR CALIFORNIA SAN DIEGO CALIFORNIA	S 773 * 735 43
332	GERBERONICS INC PATUXENT RIVER MARYLAND FALLS CHURCH VIRGINIA	S 895 * 65 850	356	FIRESTONE TIRE & RUBBER CO AKRON OHIO	759 * 759
333	S G I SYSTEMS INC MUNTSVILLE ALABAMA	892 * 892	358	DATACOM INC FORT WALTON BE FLORIDA	S 743 * 743
336	TELETYPE INC MOBILE ALABAMA HOLLISTER CALIFORNIA LOS ANGELES CALIFORNIA NORTHBRIDGE CALIFORNIA PALO ALTO CALIFORNIA SAN DIEGO CALIFORNIA MUSKEGON MICHIGAN	870 * 325 144 13 196 151 137 238	359	EASTMAN KODAK CO ROCHESTER NEW YORK	743 * 743
337	DIGITAL EQUIPMENT CORP EL SEGUNDO CALIFORNIA SAN DIEGO CALIFORNIA VANDENBERG AFB CALIFORNIA MARLBORO MASS MAYNARD MASS WESTMINSTER MASS	866 * 26 76 14 62 541 147	360	SENSOR INDUSTRIES INC FAIRFAX VIRGINIA FALLS CHURCH VIRGINIA	S 748 * 729 20
339	MONSANTO RESEARCH CORP DAYTON OHIO	845 * 845	362	COMTEL CORP ARCADIA CALIFORNIA PASADENA CALIFORNIA	S 745 * 164 241
340	BEAT HARMICK MITCHELL & CO POINT MUGU CALIFORNIA WASHINGTON DC	840 * 97 743	364	FARNSWORTH CANNON INC MCLEAN VIRGINIA	S 742 * 742
341	NORTH AMERICAN PHILIPS REARCLIFF MAN NEW YORK	837 * 837	366	SYNECTICS CORP GRIFFISS AFB NEW YORK ROME NEW YORK ALLISON PARK PA	S 741 * 87 391 263
342	SERV AIR INC LAKENHURST NEW JERSEY	825 * 825	367	ORINCORP LA JOLLA CALIFORNIA SAN DIEGO CALIFORNIA	S 733 * 782 151
343	STEIN ASSOCIATES INC WALTHAM MASS	S 810 * 810	368	VISIOTYPE INC BURLINGTON MASS	S 733 * 733
344	DOTY ASSOCIATES ROCKVILLE MARYLAND	S 801 * 801	369	ALUMINUM CO OF AMERICA LAFAYETTE INDIANA CRESSONA PA NEW KENSINGTON PA PITTSBURGH PA	742 * 14 93 127 491
345	MAR INC ROCKVILLE MARYLAND	S 801 * 801	372	NOAH J WATSON ASSOCIATES INC ALEXANDRIA VIRGINIA FALLS CHURCH VIRGINIA	S 705 * 487 299
			373	PHYSICAL DYNAMICS INC LA JOLLA CALIFORNIA	S 702 * 702
			374	WESTON INSTRUMENTS INC SARASOTA FLORIDA WRIGHT PATTERS OHIO	700 * 632 62

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375	FERRA TEK INC SALT LAKE CITY UTAH	S 697 * 697	399	HARRIDGE MOUSE INC WASHINGTON DC BOSTON MASS	639 * 189 450
376	MARK RESOURCES INC EL SEGUNDO CALIFORNIA LOS ANGELES CALIFORNIA MARINA DEL REY CALIFORNIA	S 695 * 66 24 607	400	NIELSEN ENGINEERING & RESEARCH CO MOUNTAIN VIEW CALIFORNIA	637 * 637
377	I T F GILFILLAN INC VAN NUYS CALIFORNIA	693 * 693	431	PINSON ASSOCIATES INC AUSTIN TEXAS	S 637 * 637
378	KAPPA SYSTEMS INC COLORADO SPRS COLORADO WILLOW GROVE PA ARLINGTON VIRGINIA	S 693 * 266 20 607	432	QUESTRON CORP EL SEGUNDO CALIFORNIA SAN DIEGO CALIFORNIA	S 655 * 395 529
379	PHYSICAL SCIENCES CORP WAKEFIELD MASS WOBURN MASS	S 692 * 345 347	403	GEODYNAMICS CORP SANTA BARBARA CALIFORNIA	S 634 * 634
380	AERONAUTICAL RESEARCH ASSOCIATES PORT REPUBLIC NEW JERSEY PRINCETON NEW JERSEY	S 685 * 15 670	404	EDMAC ASSOCIATES INC ROCHESTER NEW YORK	S 629 * 629
381	E M F CORP SEATTLE WASHINGTON	S 685 * 685	405	TELEDYNE ISOTOPES TIMONIUM MARYLAND WESTWOOD NEW JERSEY	S 629 * 557 71
382	GENERAL PHYSICS CORP COLUMBIA MARYLAND	S 679 * 679	437	ESSEX CORP SAN DIEGO CALIFORNIA WHITE SANDS MS NEW MEXICO ALEXANDRIA VIRGINIA	S 525 * 43 15 505
383	OCEAN DATA SYSTEMS INC MONTEREY CALIFORNIA ROCKVILLE MARYLAND	S 673 * 35 639	408	KEYSTONE COMPUTER ASSOCS INC FORT WASHINGTON PA	S 622 * 622
384	ENERGY RESEARCH CORP BETHEL CONN DANBURY CONN	671 * 378 301	411	TELEDYNE LEWISBURG LEWISBURG TENNESSEE	620 * 620
387	RALSTON PURINA CO ST LOUIS MISSOURI	663 * 663	412	APPLIED DATA RESEARCH INC PRINCETON NEW JERSEY VIENNA VIRGINIA	S 613 * 174 445
388	SPECTRONICS CORP RICHARDSON TEXAS	S 663 * 663	413	CONSOLIDATED ANALYSIS CENTER INC WASHINGTON DC ARLINGTON VIRGINIA	S 613 * 105 413
389	DIGITAL COMMUNICATIONS CORP GAITHERSBURG MARYLAND	660 * 660	414	ROME RESEARCH CORP GRIFFISS AFB NEW YORK ROME NEW YORK	S 612 * 419 197
390	FRACOR MARINE INC PORT EVERGLADE VIRGIN IS FLORIDA	659 * 402 257	416	TECOLOTE RESEARCH INC SANTA BARBARA CALIFORNIA	S 610 * 610
392	WAGNER DANIEL H ASSOCIATES INC PAOLI PA	S 656 * 656	418	AGBABIAN ASSOCIATES EL SEGUNDO CALIFORNIA	S 604 * 604
393	INDUSTRIAL RIO TEST LABORATORIES NORTHBRIDG ILLINOIS	650 * 650	419	AMERICAN ELECTRONIC LABS INC HALL TOWNSHIP NEW JERSEY COLMAR PA LANSDALE PA MONTGOMERYVILL PA FALLS CHURCH VIRGINIA	602 * 55 21 419 74 39
394	COURSEWARE INC SAN DIEGO CALIFORNIA PROVO UTAH	S 649 * 585 63	420	P E SYSTEMS INC FAIRFAX VIRGINIA SPRINGFIELD VIRGINIA	S 600 * 195 407
395	JNI SYSTEMS INC VENTURA CALIFORNIA	S 649 * 649	422	CALIFORNIA RESEARCH & TECHNOLOGY WOODLAND HILLS CALIFORNIA	S 593 * 593
397	SUSOJEMANNA CORP ALEXANDRIA VIRGINIA	645 * 645	428	HUMAN SCIENCES RESEARCH INC MCLEAN VIRGINIA	S 593 * 593
398	PULSEPOWER SYSTEMS INC SAN CARLOS CALIFORNIA	S 640 * 640			

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425	SHIP SYSTEMS INC SAN DIEGO CALIFORNIA	S 593 * 593	451	FREQUENCY & TIME SYSTEMS INC DANVERS MASS	S 539 * 539
426	VREDENBURG R M & CO MCLEAN VIRGINIA	S 592 * 592	452	NETWORK ANALYSIS CORP GLEN COVE NEW YORK	S 532 * 532
427	RAYCOHM INDUSTRIES INC FREENHOLD NEW JERSEY	583 * 583	453	HYDRONAUTICS INC LAUREL MARYLAND	S 532 * 530
429	LIFE SYSTEMS INC CLEVELAND OHIO	S 586 * 585	454	ENVIRONMENTAL RESEARCH TECHNOLOGY CONCORD MASS LEXINGTON MASS	S 525 * 439 87
430	BIO MED INC SILVER SPRING MARYLAND	S 585 * 585	455	UNION CARBIDE CORP INDIANAPOLIS INDIANA BOUND BROOK NEW JERSEY NEW YORK NEW YORK TARRYTOWN NEW YORK PARMA OHIO BENNINGTON VERMONT	S 524 * 29 38 150 173 45 124
431	SECOO SYSTEMS INC MELVILLE NEW YORK	S 584 * 584	456	CANYON RESEARCH GROUP INC CANOGA PARK CALIFORNIA WESTLAKE VILLA CALIFORNIA	S 522 * 51 461
432	COLUMBIA RESEARCH CORP PANAMA CITY FLORIDA ARLINGTON VIRGINIA FALLS CHURCH VIRGINIA	S 583 * 30 261 292	459	PACIFIC ANALYSIS CORP HONOLULU CITY HAWAII	S 512 * 512
433	TECHPLAN CORP MAPLE SHADE NEW JERSEY RAELEY'S CROSSR VIRGINIA	S 580 * 205 374	460	GENERAL INSTRUMENT CORP MICKSVILLE NEW YORK	S 511 * 511
434	SPACE VECTOR CORP NORTHridge CALIFORNIA	S 579 * 579	461	XVION CORP CEDAR KNOLLS NEW JERSEY MORRISTOWN NEW JERSEY	S 509 * 114 195
435	JNIFLITE INC RELLINGHAM WASHINGTON	S 576 * 575	464	RYCKMAN EDGERLEY TOMLINSON & ASSOC ST LOUIS MISSOURI	S 504 * 504
436	ANALYSIS & COMPUTER SYSTEMS INC BEDFORD MASS	S 575 * 575	465	AEROFLEX LABORATORIES INC LONG ISLAND CI NEW YORK PLAINVIEW NEW YORK	S 503 * 57 419
437	P R C TECHNICAL APPLICATIONS HUNTSVILLE ALABAMA MCLEAN VIRGINIA	S 573 * 374 201	466	COLLIER INFORMATION SYSTEMS INC BEDFORD MASS	S 502 * 500
438	HELIX TECHNOLOGY CORP CAMBRIDGE MASS WALTHAM MASS	572 * 151 411	467	DYNELL ELECTRONICS CORP MELVILLE NEW YORK	S 501 * 501
439	MECHANICS RESEARCH INC LOS ANGELES CALIFORNIA SANTA MONICA CALIFORNIA MCLEAN VIRGINIA	S 567 * 137 219 211	468	TELEPHONICS HUNTINGTON NEW YORK	S 499 * 499
440	IMAGE GRAPHICS INC FAIRFIELD CONN	S 566 * 566	469	I T T ARCTIC SERVICES BARROW VILLAGE ALASKA	S 495 * 495
442	HUMAN FACTORS RESEARCH INC GILBERT CALIFORNIA SANTA BARBARA CALIFORNIA	S 559 * 384 175	470	PARAMO DEVELOPMENT CORP GRAND JUNCTION COLORADO	S 492 * 492
444	LEONACE RAS & IMPORT CO NEWARK NEW JERSEY	S 555 * 555	471	OMNI SPECTRA INC TEMPE ARIZONA	S 492 * 492
446	I T O O COMPTON CALIFORNIA SARONA CALIFORNIA	S 549 * 37 511	472	SYSTEM ENHANCEMENT SERVICES CO INC ARLINGTON VIRGINIA	S 491 * 491
448	WHEELERS INDUSTRIES INC WASHINGTON DC	S 546 * 546	473	G R D CO WARMINGSTON PA	S 492 * 492
449	KINTON INC ALEXANDRIA VIRGINIA	S 543 * 543	474	CHANDLER EVANS CORP WEST HARTFORD CONN	S 490 * 490
450	UNDERSEA RESEARCH CORP FALLS CHURCH VIRGINIA VIENNA VIRGINIA	S 541 * 457 46	475	AIRESEARCH MFG CO OF ARIZONA PHOENIX ARIZONA	S 487 * 487

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

FISCAL YEAR 1977

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

SECTION II - NON-PROFIT INSTITUTIONS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
16	JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND SCAGGSVILLE MARYLAND	117,471 * 976 116,495		BATTELLE MEMORIAL INSTITUTE FORT BELVOIR VIRGINIA FORT EUSTIS VIRGINIA FORT MONROE VIRGINIA RICHLAND WASHINGTON SEATTLE WASHINGTON	23 22 103 233 73
17	MASSACHUSETTS INSTITUTE TECHNOLOGY CAMBRIDGE MASS LEXINGTON MASS	108,216 * 18,308 89,908			
28	MITRE CORP REDFORD MASS MCLEAN VIRGINIA	57,377 * 57,366 11	40	ROCHESTER UNIVERSITY OF ROCHESTER NEW YORK ARLINGTON VIRGINIA	11,748 * 9,065 5,682
30	CHARLES STARK DRAPER LABS INC CAMBRIDGE MASS WRIGHT PATTERS OHIO	45,021 * 46,973 46	43	TEXAS UNIVERSITY OF HOLLAMAN AFB NEW MEXICO ARLINGTON TEXAS AUSTIN TEXAS BROOKS AFB TEXAS DALLAS TEXAS EL PASO TEXAS GALVESTON TEXAS RICHARDSON TEXAS SAN ANTONIO TEXAS	11,294 * 273 116 1,326 101 104 127 167 43 43
43	AEROSPACE CORP EL SEGUNDO CALIFORNIA	28,668 * 28,668			
51	S R I INTERNATIONAL HUNTSVILLE ALABAMA MENLO PARK CALIFORNIA STANFORD CALIFORNIA ARLINGTON VIRGINIA	23,106 * 1,181 21,255 58 620	88	ALASKA UNIVERSITY OF BARRON VILLAGE ALASKA COLLEGE VILLAGE ALASKA FAIRBANKS CITY ALASKA	1,000 * 4,563 47 999
54	CALIFORNIA UNIVERSITY OF BERKELEY CALIFORNIA DAVIS CALIFORNIA IRVINE CALIFORNIA LA JOLLA CALIFORNIA LOS ANGELES CALIFORNIA RIVERSIDE CALIFORNIA SAN DIEGO CALIFORNIA SAN FRANCISCO CALIFORNIA SANTA BARBARA CALIFORNIA SANTA CRUZ CALIFORNIA SEPULVEDA CALIFORNIA WRIGHT PATTERS OHIO	19,992 * 6,485 230 259 6,345 3,717 182 3,364 398 472 57 42 2,436	89	GEORGIA TECH RESEARCH INSTITUTE BOCA RATON FLORIDA ATLANTA GEORGIA	3,263 * 43 4,012
63	RAND CORP SANTA MONICA CALIFORNIA	16,399 * 16,399	90	JAYTON UNIVERSITY OF WILLIAMS AFB ARIZONA EDWARDS AFB CALIFORNIA KIRTLAND AFB NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO	4,201 * 87 31 1,243 2,404 4,942
64	INSTITUTE FOR DEFENSE ANALYSIS PRINCETON NEW JERSEY ARLINGTON VIRGINIA	14,674 * 2,917 11,757	96	STANFORD UNIVERSITY MENLO PARK CALIFORNIA STANFORD CALIFORNIA	3,754 * 151 8,603
69	I I T RESEARCH INSTITUTE CHICAGO ILLINOIS ROCK ISLAND ILLINOIS ANNAPOLIS MARYLAND GRIFFISS AFB NEW YORK WRIGHT PATTERS OHIO	14,570 * 3,066 19 10,664 741 80	98	SOUTHERN CALIFORNIA UNIVERSITY OF LOS ANGELES CALIFORNIA	4,708 * 4,708
75	BATTELLE MEMORIAL INSTITUTE GUNTER AFB ALABAMA HUNTSVILLE ALABAMA REDSTONE ARSEN ALABAMA CULVER CITY CALIFORNIA REDONDO BEACH CALIFORNIA SAN DIEGO CALIFORNIA ROCK ISLAND ILLINOIS ARLINGTON PROV MARYLAND ADELPHI MARYLAND NATICK MASS ANN ARBOR MICHIGAN WARREN MICHIGAN DOVER NEW JERSEY FORT MONMOUTH NEW JERSEY WHITE SANDS MS NEW MEXICO DURHAM NCAR COLUMBUS OHIO FORT SILL OKLAHOMA FORT SAM HOUST TEXAS DUGWAY UTAH ALEXANDRIA VIRGINIA	12,573 * 29 234 292 15 31 11 51 73 11 31 38 781 29 189 58 241 9,822 24 10 11 12	99	WASHINGTON UNIVERSITY OF BOTHELL WASHINGTON SEATTLE WASHINGTON	4,453 * 20 4,453
			109	NEW MEXICO STATE UNIVERSITY LAS CRUCES NEW MEXICO UNIVERSITY PARK NEW MEXICO WHITE SANDS MS NEW MEXICO	3,400 * 3,400 12 3,401
			111	PENNSYLVANIA STATE UNIVERSITY STATE COLLEGE PA UNIVERSITY PARK PA	3,551 * 4,100 4,051
			112	WOODS HOLE OCEANOGRAPHIC INST WOODS HOLE MASS	3,346 * 3,346
			115	ENVIRONMENTAL RESCH INST OF HIGH AIN ANBOR MICHIGAN YPSILANTI MICHIGAN	3,250 * 4,062 488
			119	ILLINOIS UNIVERSITY OF CHAMPAIGN ILLINOIS CHICAGO ILLINOIS URBANA ILLINOIS	4,027 * 43 212 4,770

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

SECTION II - NON-PROFIT INSTITUTIONS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
130	SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO TEXAS	4,574 * 4,574	205	GEORGIA INSTITUTE TECH ATLANTA GEORGIA	2,122 * 2,122
136	NEW MEXICO UNIVERSITY OF ALBUQUERQUE NEW MEXICO	4,345 * 4,345	213	SOUTHERN RESEARCH INSTITUTE BIRMINGHAM ALABAMA	2,033 * 2,033
137	COLUMBIA UNIVERSITY NEW YORK NEW YORK PALISADES NEW YORK	4,243 * 1,792 2,491	217	NEW MEXICO INSTITUTE MINING & TECH SOCORRO NEW MEXICO	2,012 * 2,012
149	ANALYTIC SERVICES INC WILLOW GROVE PA FALLS CHURCH VIRGINIA	3,761 * 74 3,687	220	MIDWEST RESEARCH INSTITUTE KANSAS CITY MISSOURI WRIGHT PATTERS OHIO	1,910 * 1,743 157
151	CARNEGIE MELLON UNIVERSITY PITTSBURGH PA	3,674 * 3,674	227	MIAMI UNIVERSITY OF CORAL GABLES FLORIDA MIAMI FLORIDA	1,842 * 1,697 145
155	RIVERSIDE RESEARCH INSTITUTE NEW YORK NEW YORK	3,530 * 3,530	229	OREGON STATE UNIVERSITY CORVALLIS OREGON	1,844 * 1,840
163	MICHIGAN UNIVERSITY OF ANN ARBOR MICHIGAN PONTIAC MICHIGAN	3,138 * 3,123 15	231	YALE UNIVERSITY NEW HAVEN CONN	1,816 * 1,816
164	ARIZONA UNIVERSITY OF IGLOO MARYS IG ALASKA TUCSON ARIZONA DOVER NEW JERSEY	2,930 * 230 2,639 61	232	SYRACUSE UNIVERSITY ROME NEW YORK SYRACUSE NEW YORK	1,792 * 112 1,680
172	UTAH STATE UNIVERSITY LOGAN UTAH	2,843 * 2,843	237	CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA CALIFORNIA	1,759 * 1,759
176	HAWAII UNIVERSITY OF HONOLULU CITY HAWAII	2,735 * 2,735	240	STEVENS INSTITUTE OF TECHNOLOGY HOBOKEN NEW JERSEY	1,741 * 1,741
177	OHIO STATE UNIV RESEARCH FOUNDATION COLUMBUS OHIO WRIGHT PATTERS OHIO	2,703 * 2,660 43	247	GEORGE WASHINGTON UNIVERSITY WASHINGTON DC	1,611 * 1,611
179	PURDUE RESEARCH FOUNDATION LAFAYETTE INDIANA WEST LAFAYETTE INDIANA	2,701 * 1,369 1,312	259	SAN DIEGO STATE COLLEGE FOUNDATION SAN DIEGO CALIFORNIA	1,504 * 1,504
187	HARVARD UNIVERSITY CAMBRIDGE MASS	2,552 * 2,552	261	OKLAHOMA STATE UNIVERSITY OF STILLWATER OKLAHOMA	1,493 * 1,493
199	PENNSYLVANIA UNIVERSITY OF WASHINGTON DC PHILADELPHIA PA	2,539 * 46 2,493	262	NEW YORK POLYTECHNIC INSTITUTE BROOKLYN NEW YORK NEW YORK NEW YORK	1,441 * 1,331 150
192	PALISADES GEOPHYSICAL INSTITUTE MIAMI FLORIDA BLAUVELT NEW YORK	2,459 * 484 1,975	264	NEW YORK STATE UNIV RESEARCH FOUND ALBANY NEW YORK BUFFALO NEW YORK STONY BROOK NEW YORK	1,400 * 429 597 40
199	WISCONSIN UNIVERSITY OF MADISON WISCONSIN	2,307 * 2,307	265	CORNELL UNIVERSITY ITHACA NEW YORK NEW YORK NEW YORK	1,458 * 1,213 244
200	HUMAN RESOURCES RESEARCH ORGN CARMEL BY THE SEA CALIFORNIA FORT ORD CALIFORNIA MONTEREY CALIFORNIA LOUISVILLE KENTUCKY FORT BLISS TEXAS FORT HOOD TEXAS ALEXANDRIA VIRGINIA	2,294 * 120 90 369 195 45 384 1,163	270	BOSTON COLLEGE CHESTNUT HILL MASS NEWTON MASS WESTON MASS	1,394 * 1,048 251 49
207	MARYLAND UNIVERSITY OF BALTIMORE MARYLAND COLLEGE PARK MARYLAND	2,136 * 346 1,790	278	FLORIDA UNIVERSITY GAINESVILLE FLORIDA	1,247 * 1,247
			283	SYRACUSE RESEARCH CORP SYRACUSE NEW YORK	1,186 * 1,186
			284	PRINCETON UNIVERSITY PRINCETON NEW JERSEY	1,181 * 1,181
			297	NEW YORK UNIVERSITY NEW YORK NEW YORK	1,092 * 1,092

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

SECTION II - NON-PROFIT INSTITUTIONS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
299	COLORADO UNIVERSITY BOULDER COLORADO DENVER COLORADO	1,389 * 965 123	396	SOUTHEASTERN CTB ELECT ENGR EDUC AUBURN ALABAMA WRIGHT PATTERS OHIO	645 * 433 212
304	LOUISIANA STATE UNIVERSITY OF BATON ROUGE LOUISIANA NEW ORLEANS LOUISIANA	1,054 * 772 282	406	FLORIDA TECHNOLOGICAL UNIVERSITY ORLANDO FLORIDA	627 * 627
309	CATHOLIC UNIVERSITY OF AMERICA WASHINGTON DC	1,019 * 1,019	410	WRIGHT STATE UNIVERSITY DAYTON OHIO WRIGHT PATTERS OHIO YELLOW SPRINGS OHIO	621 * 458 131 32
310	NORTHEASTERN UNIVERSITY BOSTON MASS	1,010 * 1,010	415	CASE WESTERN RESERVE UNIVERSITY CLEVELAND OHIO	612 * 612
316	DENVER UNIVERSITY OF DENVER COLORADO	993 * 993	417	MISSOURI UNIVERSITY OF COLUMBIA MISSOURI ROLLA MISSOURI	607 * 384 223
324	RHODE ISLAND UNIVERSITY OF KINGSTON RI	913 * 913	421	IOWA UNIVERSITY OF IOWA CITY IOWA	599 * 598
329	WENTWORTH INSTITUTE BOSTON MASS	907 * 907	424	NORTHWESTERN UNIVERSITY EVANSTON ILLINOIS	593 * 593
334	MINNESOTA UNIVERSITY OF MINNEAPOLIS MINNESOTA ST PAUL MINNESOTA	885 * 752 133	428	BROWN UNIVERSITY PROVIDENCE RI	583 * 583
335	AMERICAN UNIVERSITY WASHINGTON DC	882 * 882	441	MASSACHUSETTS UNIVERSITY OF AMHERST MASS WORCESTER MASS	561 * 455 111
338	AUBURN UNIVERSITY AUBURN ALABAMA	851 * 851	443	GEORGETOWN UNIVERSITY WASHINGTON DC	552 * 555
344	RESEARCH TRIANGLE INSTITUTE TRIANGLE PARK NCAR	790 * 790	445	REGIS COLLEGE WESTON MASS	549 * 549
349	VIRGINIA UNIVERSITY OF CHARLOTTESVILLE VIRGINIA	790 * 790	447	HUDSON INSTITUTE GROTON ON HUDS NEW YORK	548 * 548
355	TENNESSEE UNIVERSITY OF KNOXVILLE TENNESSEE MEMPHIS TENNESSEE TULLAHOMA TENNESSEE	764 * 622 56 86	457	VIRGINIA POLYTECHNIC INSTITUTE BLACKSBURG VIRGINIA LANGLEY AFB VIRGINIA	513 * 502 14
357	CINCINNATI UNIVERSITY OF CINCINNATI OHIO WRIGHT PATTERS OHIO	757 * 389 368	459	PALISADES INSTITUTE NEW YORK NEW YORK	514 * 514
361	TEXAS A & M UNIVERSITY COLLEGE STATION TEXAS	746 * 746	462	NORTH CAROLINA UNIVERSITY OF CHAPEL HILL NCAR WILMINGTON NCAR	503 * 403 109
363	BOSTON UNIVERSITY BOSTON MASS CHESTNUT HILL MASS	743 * 719 25	463	SOUTHERN METHODIST UNIVERSITY OF DALLAS TEXAS	502 * 502
365	UTAH UNIVERSITY OF SALT LAKE CITY UTAH	742 * 742	476	SPEECH COMMUNICATIONS RESEARCH LAB SANTA BARBARA CALIFORNIA	495 * 495
371	FLORIDA STATE UNIVERSITY TALLAHASSEE FLORIDA	711 * 711	487	EMMANUEL COLLEGE BOSTON MASS	457 * 457
385	RENSSELAER POLYTECHNIC INSTITUTE TROY NEW YORK	667 * 667	490	WAYNE STATE UNIVERSITY DETROIT MICHIGAN	424 * 424
386	DUKE UNIVERSITY DURHAM NCAR	664 * 664	493	COLORADO STATE UNIVERSITY FORT COLLINS COLORADO	442 * 442
391	PITTSBURGH UNIVERSITY OF PITTSBURGH PA	657 * 657			683,707

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

SECTION III - FOREIGN CONTRACTORS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
141	CANADIAN COMMERCIAL CORP CANADA	4,056 *			
		4,056			
202	REDIFON FLIGHT SIMULATION LTD UN KINGDOM	2,259 *			
		2,259			
370	ROYAL NORWEGIAN CNCL SCHTFC IND RS NORWAY	713 *			
		713			
		7,028			

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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SECTION IV - U. S. GOVERNMENT AGENCIES

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
120	NATIONAL ACADEMY OF SCIENCES	5,013 *			
	WASHINGTON DC	15			
	ABERDEEN PROV MARYLAND	4,686			
	DOVER NEW JERSEY	290			
		22			
190	UNITED STATES SMALL BUSINESS ADMIN	2,498 *			
	SUNNYVALE CALIFORNIA	334			
	VANDENBERG AFB CALIFORNIA	258			
	WASHINGTON DC	210			
	BELTSVILLE MARYLAND	46			
	CAMBRIDGE MASS	664			
	FORT WASHINGTON PA	778			
	ALEXANDRIA VIRGINIA	108			
	MCLEAN VIRGINIA	100			
204	UNITED STATES ENERGY DEPT	2,226 *			
	LIVERMORE CALIFORNIA	611			
	OAKLAND CALIFORNIA	870			
	ARZONNE ILLINOIS	725			
	OAK RIDGE TENNESSEE	20			
236	UNITED STATES COMMERCE DEPT	1,756 *			
	BOULDER COLORADO	366			
	WASHINGTON DC	1,134			
	GAITHERSBURG MARYLAND	110			
	ROCKVILLE MARYLAND	39			
	SEATTLE WASHINGTON	107			
245	UNITED STATES NAFL AERO SPACE AGY	1,640 *			
	RIDGELEY MVA	1,640			
290	SMITHSONIAN INSTITUTION	1,137 *			
	WASHINGTON DC	753			
	CAMBRIDGE MASS	384			
409	NATIONAL SCIENCE FOUNDATION	621 *			
	WASHINGTON DC	621			
		14,491			

* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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