

SELECTED ACQUISITION REPORT (SAR) SUMMARY TABLES

As of Date: December 31, 2001

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UNCLASSIFIED

**Department of Defense
OUSD(AT&L) AR&A/AM
April 5, 2002**

SELECTED ACQUISITION REPORTS (SARs) - HIGHLIGHTS

(As of December 31, 2001)

The Department of Defense has released details on major defense acquisition program cost and schedule changes since the September 2001 reporting period. This information is based on the Selected Acquisition Reports (SARs) submitted to the Congress for the December 31, 2001 reporting period.

SARs summarize the latest estimates of cost, schedule, and technical status. These reports are prepared annually in conjunction with the President's budget. Subsequent quarterly exception reports are required only for those programs experiencing unit cost increases of at least 15 percent or schedule delays of at least six months. Quarterly SARs are also submitted for initial reports, final reports, and for programs that are rebaselined at major milestone decisions.

The total program cost estimates provided in the SARs include research and development, procurement, military construction, and acquisition-related operation and maintenance (except for pre-Milestone B programs which are limited to development costs pursuant to 10 USC §2432). Total program costs reflect actual costs to date as well as future anticipated costs. All estimates include anticipated inflation allowances.

The current estimate of program acquisition costs for programs covered by SARs for the prior reporting period (September 2001) was \$790,402.3 million. After subtracting the costs for final reports and adding the costs for five new programs (Active Electronically Scanned Array (AESA), Global Hawk, Joint Simulation System (JSIMS), T-AKE, and Wideband Gapfiller) in September 2001, the adjusted current estimate of program acquisition costs was \$796,795.5 million. There was a net cost increase of \$133,327.7 million or 18.2 percent during the current reporting period (December 2001). However, since 56 programs of the 70 programs reported here did not update their outyear budget streams since the December 1999 reporting period, most of this growth has occurred over a two-year period vice a three-month period. As in past net cost increase calculations, funds have been excluded for programs submitting new ("initial") SARs. For this SAR submission cycle, these programs are C-130 Avionics Modernization Program (AMP), C-5 Reliability and Reengining Program (RERP), Ballistic Missile Defense System (BMDS), and Blackhawk Upgrade (UH-60M).

This increase was due primarily to higher program estimates (+\$56.1 billion), additional engineering changes (hardware/software) (+\$19.2 billion), and a net stretch out of the development and procurement schedules (+\$8.2 billion). There was also a net increase in the planned quantities to be purchased (+\$42.8 billion) along with the associated support costs (+\$11.8 billion). These increases were partially offset by the application of lower escalation indices (-\$4.9 billion).

The primary components of the total cost increase are summarized below:

	Current Estimate (\$ in Millions)
September 2001 (71 programs)	\$ 790,402.3
Less final reports on completed programs, Strategic Sealift and GSM (Ground Station Module) portion of CGS (Common Ground Station)	- 6,733.4
Plus five new programs (AESA, Global Hawk, JSIMS, T-AKE, and Wideband Gapfiller)	+ 13,126.6
September 2001 Adjusted (75 programs)	\$ 796,795.5
Changes Since Last Report:	
Economic	\$ -4,867.1
Quantity	+42,837.9
Schedule	+8,156.5
Engineering	+19,169.7
Estimating	+56,139.9
Other	+116.0
Support	<u>+11,774.8</u>
Net Cost Change	\$ +133,327.7
Plus initial procurement cost estimates for JSF (Joint Strike Fighter) and AEHF (Advanced Extremely High Frequency); previous reports limited to development costs per 10 USC §2432	+197,980.4
Less cancelled Missile Defense Agency programs, ABL (Airborne Laser), Navy Area TBMD (Theater Ballistic Missile Defense), NMD (National Missile Defense), NTW (Navy Theater Wide), SBIRS (Space-Based Infrared System) Low, and THAAD (Theater High Altitude Area Defense) costs that are reported in new BMDS SAR	-59,071.4
Less GPS III costs previously reported in the NAVSTAR GPS (Global Positioning System); GPS III will be designated as a separate major defense acquisition program	-3,986.5
Less correction to AIM-9X support costs previously reported in the December 1999 SAR	-1.3
December 2001 (70 programs)	\$1,065,044.4

Further details of the most significant changes are attached.

**New SARs
(As of December 31, 2001)**

The Department of Defense has submitted initial SARs for BMDS (Ballistic Missile Defense System), Black Hawk Upgrade (UH-60M), C-5 RERP (Reliability and Reengining Program), and C-130 AMP (Avionics Modernization Program). These reports do not represent cost growth. Baselines established on these programs will be the point from which future changes will be measured. The current cost estimates are provided below:

<u>Program</u>	<u>Current Estimate (\$ in Millions)</u>
C-5 RERP (Reliability and Reengining Program)	\$ 10,269.7
C-130 AMP (Avionics Modernization Program)	4,577.0
BMDS (Ballistic Missile Defense System)*	47,217.1
Black Hawk Upgrade (UH-60M)	<u>13,183.5</u>
Total	\$ 75,247.3

** Pre-Milestone B program reporting development (RDT&E) costs only, in accordance with the provisions of 10 USC §2432.*

Summary Explanations of Significant SAR Cost Changes
(As of December 31, 2001)

ARMY:

ATACMS-BAT (Army Tactical Missile System-Brilliant Antitank) – Program costs increased \$720.2 million (+12.4%) from \$5,795.1 million to \$6,515.3 million, due primarily to revised BAT/BAT P3I cost estimates resulting from suspension of program operational testing (+\$362.3 million in RDT&E and +\$16.1 million in procurement), a quantity increase in the BAT end item of 1,406 submunitions from 14,781 to 16,187 (+\$89.6 million) and associated engineering, estimating, and schedule allocations* (+\$107.8 million), a quantity increase in the ATACMS Block II missiles of 111 from 1,130 to 1,241 (+\$98.0 million) and associated schedule and estimating allocations* (+\$41.9 million), and a stretchout of the annual procurement buy profile by one year (+\$98.5 million). These increases were partially offset by revised ATACMS Block II cost estimate as a result of the suspension of program operational testing (-\$51.7 million) and the application of revised escalation indices (-\$36.5 million).

Bradley Upgrade – Program costs increased \$386.0 million (+10.0%) from \$3,859.8 million to \$4,245.8 million, due primarily to a quantity increase of 111 vehicles from 926 to 1,037 (+\$318.6 million), changes to the program estimate based on actual contract awards (+\$21.9 million), and an increase in initial spares (\$+18.7 million) and other weapon system support requirements (+\$17.5 million).

CGS (Common Ground System) – Program costs decreased \$428.5 million (-35.0%) from \$1,225.6 million to \$797.1 million, due primarily to the transfer of funds, previously identified as belonging to CGS, that has been transferred to the Distributed Common Ground System (not recognized as part of the CGS program) (-\$38.2 million in RDT&E and -\$390.4 million in procurement).

CH-47F (Chinook) – Program costs increased \$3,632.4 million (+117.9%) from \$3,081.4 million to \$6,713.8 million, due primarily to increased Boeing Philadelphia labor and overhead rates (+\$580.3 million); “Over and Above” costs (+\$538.9 million), i.e., additional costs needed to bring the Chinook (CH-47D) up to the right contractual specification to commence the CH-47F modification effort; and Full Component Recapitalization costs (+\$1,014.9 million), i.e., where selected aircraft parts are “zero-timed” by installing a new CH-47D part (these parts are already on the CH-47D aircraft and are not part of the basic CH-47F modification effort). There were additional increases related to new training requirements and a change in force structure (+\$797.6 million). Lastly, the quantity of CH-47F modifications increased 37 helicopters from 302 to 339 helicopters (+\$325.3 million).

Javelin – Program costs increased \$399.9 million (+10.5%) from \$3,819.8 to \$4,219.7 million, due primarily to a quantity increase of 3,436 rounds from 22,415 to 25,851 rounds (+\$192.1 million), an increase of 357 Command Launch Units (CLUs) from 4,510 to 4,867 CLUs (+\$28.3 million), and associated schedule and estimating allocations* (+\$38.0 million). There were also increases to reflect a change in the acquisition strategy for procuring rounds and CLUs (+\$139.0 million).

MCS (Maneuver Control System) – Program costs decreased \$239.5 million (-18.7%) from \$1,278.8 million to \$1,039.3 million, due primarily to a revised estimate reflecting the change in requirements from a 10-year procurement to a 5-year procurement (-\$537.5 million), a decrease in initial spares requirements based on a change in the sparing concept (-\$40.4 million), and the application of revised escalation indices (-\$36.0 million). These decreases are partially offset by an increase in quantity of 4,059 units from 5,665 to 9,724 units (+\$1,427.5 million) and associated schedule, engineering, and estimating allocations* (-\$1,069.3 million), and an increase in support due to additional requirements for fielding teams (+\$11.6 million).

MLRS Upgrade (Multiple Launch Rocket System) – Program costs increased \$7,506.9 million (+153.5%) from \$4,891.6 million to \$12,398.5 million, due primarily to a quantity increase of 77,856 rockets from 62,148 to 140,004 rockets (+\$3,140.7 million) and associated schedule and estimating allocations* (+\$849.9 million). There were also increases to reflect a new estimating methodology that uses actual data versus parametric analysis, annual procurements rather than multi-year, and increased contractor overhead rates (+\$3,810.7 million).

Patriot PAC-3 (Patriot Advanced Capability) – Program costs increased \$1,136.4 million (+10.7%) from \$10,669.4 million to \$11,805.8 million, due primarily to a quantity increase of 103 missiles from 1,056 to 1,159 missiles (+\$391.1 million) and associated schedule, engineering, and estimating allocations* (+\$143.2 million). Additional increases to the Missile segment included follow-on flight testing in FY03-04 (+\$82.5 million), a revised estimate of outyear inflation (+\$82.5 million), and an FY02 Congressional increase for missile procurement or initial production facilities (+\$60.0 million). There were also increases related to the Fire Unit modifications segment, e.g., additional funding for reliability, availability, and maintainability (RAM) modifications (+\$107.4 million), higher estimates for radar/classification discrimination (+\$99.1 million), and additional remote launch/communication enhancement upgrades (+\$77.8 million).

SMART-T (Secure Mobile Anti-Jam Reliable Terminal - Tactical) – Program costs increased \$116.2 million (+17.7%) from \$658.3 million to \$774.5 million, due primarily to a quantity increase of 107 terminals from 213 to 320 terminals (+\$91.7 million) and associated schedule, engineering, and estimating allocations* (-\$23.8 million).

NAVY:

DD(X) (formerly DD 21 Destroyer) – Development costs increased \$5,590.2 million (+107.1%) from \$5,219.5 million to \$10,809.7 million, due primarily to the addition of first ship construction funded by RDT&E funds (+\$2,549.0 million), added funding for engineering development models to support the DD(X) acquisition strategy (+\$1,250.0 million), the addition of funding in FY06-07 (+\$976.4 million), and a revised estimate for program costs beyond FY07 (+\$962.1 million). These increases were partially offset by miscellaneous program estimate adjustments (-\$31.2 million) and Congressional adjustments (-\$124.5 million).

DDG 51 Destroyer – Program costs increased \$10,219.1 million (+18.3%) from \$55,807.6 million to \$66,026.7 million, due primarily to the quantity increase of 6 ships from 58 to 64 ships (+\$5,853.5 million), post delivery and outfitting requirements for the 6 additional ships (+\$378.2 million), and revised estimates resulting from a change in the estimating assumptions with respect to the cost-quantity relationship for the 6 additional ships (+\$1,507.7 million). There were also increases for the addition of the Remote Minehunting System (+\$154.3 million); additional funds for previously unfunded requirements (+\$579.4 million); revised cost estimates for ship construction, Government Furnished Equipment (GFE), and outfitting and post delivery (+\$525.4 million); and the application of revised escalation rates (+\$433.2 million).

E-2C Reproduction – Program costs increased \$719.3 million (+22.5%) from \$3,193.2 million to \$3,912.5 million, due primarily to a quantity increase of 5 aircraft from 36 to 41 aircraft (+\$360.3 million) and associated schedule, engineering, and estimating allocations* (+\$12.5 million), additional funds to reprice and rephase the Cooperative Engagement Capability (CEC) (+\$25.6 million), and for parts obsolescence (+\$33.3 million). There were also increases for additional Contractor Furnished Equipment (CFE)/GFE for the new aircraft (+\$90.0 million), an increase in production support and initial spares for the five additional aircraft (+\$51.3 million), a revised estimate for initial spares unrelated to the quantity increase (+\$18.8 million), the addition of funds for a weapon systems trainer (+\$49.8 million), and additional funding for the development of E-2C improvements (+\$69.9 million).

F/A-18 E/F – Program costs increased \$1,965.4 million (+4.2%) from \$46,825.7 million to \$48,791.1 million, due primarily to a change in the procurement buy profile from a steady state production rate of 48 aircraft per year to a low of 42 to a maximum of 55 aircraft per year (+\$998.0 million), economic price adjustment increases (+\$402.7 million), Advanced Tactical Forward Looking Infrared cost growth (+\$142.2 million), increases for AESA costs transferred from CFE (+\$199.1 million), and an increase in support costs due to the change in the F/A-18E and F/A-18F squadron mix (+\$234.1 million).

JSOW (Joint Stand Off Weapon) – Program costs increased \$1,323.9 million (+23.0%) from \$5,749.3 million to \$7,073.2 million, due to a number of program adjustments including changes in contractor rates (projected savings not realized in the facility relocation) (+\$408.0 million), an increase of 1,154 missiles from 17,960 to 19,114 missiles (+\$241.5 million), incorporation of the Unitary BROACH warhead (+\$89.8 million). There were additional increases associated with the establishment of a more realistic production profile (+\$163.6 million), increased unit cost for BLU-108 enhancements (+\$132.4 million), and revisions to accommodate the Lost Cost Control Section (+\$119.4 million).

LPD 17 – Program costs increased \$6,603.1 million (+75.2%) from \$8,777.6 million to \$15,380.7 million, due primarily to a quantity increase of 4 ships from 8 to 12 ships (+\$3,606.0 million) and associated schedule and estimating allocations* (+\$733.9 million), a rescheduling of the FY03-04 ships to FY05-06 (+\$87.1 million), revised cost estimates for LPD 17-20 (+\$945.5 million), revised estimates for outfitting and post delivery associated with the quantity increase and the rescheduling of the

FY03-09 ships (+\$352.5 million), and an increase to LPD 21-28 to reflect increased labor hours, labor rates material costs, etc. (+\$1,451.6 million). These increases were partially offset by FY02 Congressional reductions (-\$266.3 million) and revised estimates for outfitting and post delivery for LPD 17-20 (-\$227.2 million).

MH-60R (Multi-Mission Helicopter) – Program costs increased \$3,765.5 million (+66.9%) from \$5,631.4 million to \$9,396.9 million, due primarily to a revised cost estimate based on changing from modifying existing helicopters to manufacturing new helicopters (+\$1,985.4 million). There were also schedule-related changes, to include four more years of production due to a decreased production rate (+\$505.0 million) and a quantity increase of 12 aircraft from 231 aircraft to 243 aircraft (+\$242.2 million).

MH-60S (Fleet Combat Support Helicopter) – Program costs increased \$826.0 million (+18.1%) from \$4,561.5 million to \$5,387.5 million, due primarily to labor and overhead rate increases, and an underestimation of hours to do this effort (+\$513.3 million). Also, there have been additional integration efforts to include Mission Kits for Airborne Mine Countermeasures (a new requirement), other modifications, and non-recurring engineering being added to the aircraft procurement funded accounts (+\$228.9 million).

SSN 774 (Virginia Class) – Program costs increased \$7,762.6 million (+11.8%) from \$65,677.5 million to \$73,440.1 million, due primarily to an updated estimate for program repricing (+\$5,442.9 million), additional prior year completion funds (FY02-06) (+\$1,051.5 million), additional funds for major shore spares (+\$432.7 million), a stretchout of the annual procurement buy profile (+\$345.1 million), and revised escalation indices (+\$178.3 million).

Tactical Tomahawk – Program costs increased \$291.7 million (+15.5%) from \$1,878.2 million to \$2,169.9 million, due primarily to a quantity increase of 373 missiles from 1,352 to 1,725 missiles (+\$243.8 million), and associated schedule and estimating allocations* (+\$16.9 million), and an increase in other weapon system support costs (+\$147.0 million). These increases were partially offset by revised escalation rates (-\$47.8 million), a revised program cost estimate (-\$49.9 million), and a decrease in peculiar support requirements (-\$44.9 million).

Trident II Missile – Program costs increased \$10,360.1 million (+38.1%) from \$27,183.8 million to \$37,543.9 million, due primarily to a quantity increase of 115 missiles from 453 to 568 missiles (+\$4,256.0 million) in conjunction with extending the service life of the TRIDENT submarine from 30 years to 44 years. There were additional increases for replacement of MK-6 guidance systems and missile electronics associated with the D-5 life extension (+\$3,999.1 million), a revised estimate for age-driven replacement of the MK-4 reentry body, and fuzing and firing systems (+\$361.1 million), additional production support for extending production to FY13 that is associated with the D-5 life extension (+\$748.8 million), and a revised estimate for test flight instrumentation hardware (+\$1,062.2 million).

USMC H-1 Upgrades – Program costs increased by \$2,523.7 million (+68.0%) from \$3,710.9 million to \$6,234.6 million, due primarily to an increase in development costs to accommodate changes in development and integrated flight test efforts (FY03-05) (+\$218.7 million) and to accommodate engineering, logistics, and flight test support commensurate with the revised program schedule (+\$130.5 million), a realignment of contract costs for delay in production start from FY02 to FY04 (+\$342.0 million), a change in estimating assumptions to reflect a more realistic composite learning curve (+\$450.7 million), and an update of the materials cost estimate based on prototype actual costs (+\$461.6 million). There were additional increases related to revised estimates for airframe and engine repair and refurbishment and for Target Sight System (+\$210.2 million), an increase to reflect further refinements based on prototype actual costs (+\$177.3 million), an increase in initial spares requirements to meet current readiness objectives (+\$314.1 million), and an increase in other weapon system support costs that includes blade fold racks and ground handling wheels (+\$126.4 million).

V-22 – Program costs increased by \$9,023.0 million (+24.2%) from \$37,217.8 million to \$46,240.8 million, due primarily to increases to fully fund the restructured development efforts (+\$1,075.4 million), a production quantity increase of 19 aircraft from 437 to 456 aircraft (+\$1,089.2 million), a stretchout of the annual procurement buy profile (+\$850.0 million), revised estimates of the material curve/slopes (+\$1,813.3 million), revised estimates of the labor curve/rates (+\$2,837.1 million), and increases in initial spares, peculiar support, and other weapon system costs (+\$1,450.5 million).

AIR FORCE:

AEHF (Advanced Extremely High Frequency) Satellite – Development costs increased \$1,795.0 million (+75.2%) from \$2,385.9 million to \$4,180.9 million, due primarily to additional system requirements needed to fulfill warfighting requirements (+\$1,294.8 million), the addition of International Partner funding (+\$270.0 million), and a six month slip of satellites 1-3 launches and of Initial Operational Capability (+\$218.0 million). The cost increases were partially offset by the application of revised escalation indices (-\$104.1 million). As a result of the Defense Acquisition Executive (DAE) Milestone B approval, the program entered into the System Development and Demonstration (SDD) phase in October 2001, and \$1,380.4 million of procurement for 3 production satellites has been added to the SAR. Previously, the AEHF SAR was limited to development costs only (per 10 USC §2432). Since approval of the Milestone B acquisition strategy, the Deputy Secretary of Defense directed the Air Force to accelerate procurement of satellite 3 from FY06-07 to FY03-04 (+\$73.1 million).

C-17A – Program costs increased \$14,138.2 million (+31.5%) from \$44,860.1 million to \$58,998.3 million, due primarily to an increase of 46 aircraft from 134 to 180 aircraft (+\$5,810.3 million) and associated schedule, engineering, estimating, and other allocations* (+\$4,594.7 million). There were also increases for additional peculiar support related to the quantity change (+\$6,089.3 million). These increases were partially offset by reductions to reflect the C-17 follow-on buy efficient funding profile (-\$2,526.4 million).

C-130J – Program costs increased \$13,038.0 million (+495.1%) from \$2,633.2 million to \$15,671.2 million, due primarily to an increase of 136 aircraft from 32 to 168 aircraft (+\$12,163.5 million) and associated estimating allocations* (-\$1,129.4 million). There were additional increases for initial spares (+\$613.9 million) and logistical support, training, and training devices (+\$1,424.4 million) related to the quantity increase.

EELV (Evolved Expendable Launch Vehicle) – Program costs increased \$1,140.5 million (+6.6%) from \$17,244.6 million to \$18,385.1 million, due primarily to the addition of one Heavy Lift Vehicle Demonstration Launch in the development program (+\$141.1 million), increases for launch services adjustments, to include commercial market price variations and payload weight growth (+\$957.0 million), programmatic adjustments to fully fund future launches (+\$121.7 million), and a revised estimate for required support services (+\$65.0 million). These increases were partially offset by the application of revised escalation rates (-\$204.5 million).

GBS (Global Broadcast Service) – Program costs increased \$131.4 million (+25.5%) from \$514.3 million to \$645.7 million, due primarily to including program procurement from FY04-07. Previous GBS SARs reflected procurement funding only through FY03. The Army quantity increased by 49 receive suites (RS) from 170 to 219 RS (+\$32.1 million); the Navy quantity increased by 75 RS from 93 to 168 RS (+\$43.1 million) with associated installation and integration costs from the Navy RS (+\$39.5 million); the Air Force quantity increased by 81 RS, from 41 to 122 RS (+\$16.5 million); and 103 RS from 136 to 239 RS were added for the Marine Corps (+\$20.2 million).

Global Hawk – Program costs increased \$1,351.1 million (+24.6%) from \$5,495.5 million to \$6,846.6 million, due primarily to additional requirements and capabilities approved for the Global Hawk program (+\$2,830.0 million), an extension of the engineering and manufacturing development (EMD) program from FY07-11 (+\$198.3 million). These increases were partially offset by a quantity reduction of 12 air vehicles from 63 to 51 air vehicles (-\$650.5 million) and an acceleration of the buy profile that deletes 9 years of the production program (-\$1,275.4 million).

JASSM (Joint Air-to-Surface Standoff Missile) – Program costs increased \$1,018.2 million (+48.5%) from \$2,101.4 million to \$3,119.6 million, due primarily to an increase of 1,300 production missiles from 2,400 to 3,700 missiles (+\$712.6 million). Cost increases also included the addition of Navy funds to integrate on the F/A-18 E/F (+\$97.0 million) and a revised program estimate at the low rate initial production (LRIP) decision (+\$115.3 million).

JDAM (Joint Direct Attack Munition) – Program costs increased \$1,239.0 million (+47.2%) from \$2,626.4 million to \$3,865.4 million, due primarily to an increase of 48,475 production kits from 87,496 to 135,971 kits (+\$1,149.2 million). Other cost increases included additional funding for new MK-82 (500 lb) variant (+\$80.0 million) and for new the Selective Availability Anti-Spoofing module (SAASM) and Anti-Jam development efforts (+\$51.4 million).

JPATS (Joint Primarily Aircraft Training System) – Program costs increased \$1,052.1 million (+26.5%) from \$3,974.6 million to \$5,026.7 million, due primarily to a quantity increase of 71 aircraft from 712 to

783 aircraft to reflect ORD III requirements (+\$380.0 million), a change in unit price and buy profile assumptions (+\$474.7 million), and an overall increase in Navy and Air Force support requirements (+\$238.7 million).

JSTARS (Joint Surveillance Target Attack Radar System) – Program costs increased by \$1,030.9 million (+12.0%) from \$8,597.1 million to \$9,628.0 million, due primarily to a quantity increase of 2 aircraft from 16 to 18 aircraft (+\$507.6 million) and associated engineering and estimating allocations* (-\$29.0 million). There were additional cost increases related to a baseline extension for Link 16, miscellaneous test efforts, and other engineering developments (+\$197.8 million); the addition of funding for Single Lab configuration and other development plus-ups (+\$61.0 million); a revised estimate for initial spares primarily due to funding received for long lead, logistics support, fuel tank modifications, and initial spares (+\$107.0 million); and an increase in support due to reprogramming of funds for satellite communications, new funding for the Computer Replacement Program, and modifications to the fuel tanks (+\$196.0 million).

NAS (National Airspace System) – Program costs increased \$111.1 million (+11.1%) from \$1,001.6 million to \$1,112.7 million, due primarily to a refinement of the Navy estimate based on buy profile and site specific configuration changes (+\$57.9 million), and refinement of the Air Force estimate, also based on buy profile and configuration changes (+ \$64.1 million).

SBIRS (Space Based Infrared System) High – Program costs increased by \$2,695.6 million (+66.6%) from \$4,047.9 million to \$6,743.5 million, due primarily to the addition of funds for Combined Test Force requirements (+\$52.8 million) and for Block II redesign (+\$473.3 million), for engineering and manufacturing development (EMD) cost growth (+\$344.7 million), and for EMD contract extension (+\$1,535.9 million). Costs also increased due to additional procurement funds needed for EMD cost growth (+\$105.0 million), additional funds required for O&M costs for FY06-08 (+\$53.1 million), the refinement of estimate for Relay Ground Station, Mission Control Station Backup (MCSB) activation costs and other costs (+\$34.1 million), the addition of MCSB Contract Logistics Support O&M funding (+\$47.1 million) and O&M costs for FY09 (+\$43.6 million).

DoD:

CHEM DEMIL (Chemical Demilitarization) – Program costs increased \$10,518.4 million (+79.8%) from \$13,183.6 million to \$23,702.0 million, due primarily to a revised estimate to demilitarize the Chemical Stockpile Program. The most significant cost drivers in the revision were (1) revised processing rates based on operational experience at the Johnston Island and Tooele facilities, (2) schedule extensions for disposal operations, (3) new/emerging environmental regulations, (4) worse-than-expected condition of the stockpile, (5) increase in equipment, labor rates, and construction costs, and (6) higher emergency preparedness costs.

JSF (Joint Strike Fighter) –Development costs increased \$7,904.2 million (+3.6%) from \$218,554.1 million to \$226,458.3 million, due primarily to delay of the System Development and Demonstration

(SDD) decision, extension of the SDD phase from a 90-month to 126-month effort employing a block approach, a refined cost estimating model with a more detailed work breakdown structure, and addition of two flight test aircraft to the program. As a result of the Defense Acquisition Executive (DAE) Milestone B approval, the program entered into the SDD phase in October 2001, and \$196,600.0 million of procurement for 2,866 production aircraft has been added to the SAR. Previously, the JSF SAR was limited to development costs only (per 10 USC §2432).

** Note: Quantity changes are estimated based on the original SAR baseline cost-quantity relationship. Cost changes since the original baseline are separately categorized as schedule, engineering, or estimating "allocations." The total impact of a quantity change is the identified "quantity" change plus all associated "allocations."*

Program Acquisition Cost Summary In Millions of Dollars

As of Date: December 31, 2001

Weapon System	Base Year	Type of Baseline	Baseline Estimate			Changes To Date			Current Estimate			Percent Cost Change		
			Cost		Quantity	Cost		Quantity	Cost		Quantity	To Date Adjust for Qty		
			Base Year \$	Current Year \$		Base Year \$	Current Year \$		Base Year \$	Current Year \$		Base Year \$	Current Year \$	
ARMY:														
ABRAMS UPGRADE	95	PdE	6,991.9	7,961.9	1,060	1,468.7	1,134.2	95	8,460.6	9,096.1	1,155	13.1	6.5	
ATACMS-BAT	91	DE	3,867.7	5,287.7	32,799	1,213.8	1,227.6	-15,371	5,081.5	6,515.3	17,428	70.9	76.1	
ATIRCM/CMWS	96	DE	2,628.4	3,361.6	3,094	-356.8	-510.2	-2,016	2,271.6	2,851.4	1,078	38.9	43.1	
BRADLEY UPGRADE	01	PdE	3,724.2	3,859.8	926	349.8	386.0	111	4,074.0	4,245.8	1,037	1.7	1.6	
CGS	00	DE/PdE	812.7	820.2	96	-19.8	-23.1	-	792.9	797.1	96	0.1	-0.3	
CH-47F	97	DE	2,523.6	3,115.4	302	2,864.6	3,598.4	37	5,388.2	6,713.8	339	95.5	95.1	
COMANCHE	00	DE	37,936.1	48,134.3	1,213	1,240.7	-228.7	-	39,176.8	47,905.6	1,213	3.4	-0.4	
CRUSADER (RDT&E)	95	PE	2,357.0	2,780.0	-	1,458.0	1,506.3	-	3,815.0	4,286.3	-	54.1	46.8	
FBCB2	00	DE	2,281.0	2,617.9	59,522	154.0	199.5	-3,057	2,435.0	2,817.4	56,465	9.9	11.3	
FMTV	96	PdE	11,594.2	18,921.3	85,488	2,657.7	-846.9	-2,303	14,251.9	18,074.4	83,185	24.0	-1.4	
IAV	00	DE	6,480.8	7,120.2	2,131	-134.0	-175.8	-	6,346.8	6,944.4	2,131	-2.0	-2.3	
JAVELIN	97	PdE	3,791.1	3,926.0	28,501	338.0	293.7	-2,650	4,129.1	4,219.7	25,851	5.8	5.2	
LONGBOW APACHE	96	PdE	7,389.7	8,729.2	985	945.0	122.3	-257	8,334.7	8,851.5	728	41.2	29.2	
LONGBOW HELLFIRE	96	PdE	2,352.0	2,635.6	13,311	131.2	-11.8	-406	2,483.2	2,623.8	12,905	7.5	1.7	
MCS	80	DE	106.9	232.1	947	364.5	807.2	8,777	471.4	1,039.3	9,724	-55.5	-59.5	
MLRS UPGRADE	98	DE	3,345.5	3,900.4	44,039	6,216.0	8,498.1	96,292	9,561.5	12,398.5	140,331	81.4	83.2	
PATRIOT PAC-3	88	DE	4,798.8	6,381.6	1,254	3,817.4	5,424.2	-55	8,616.2	11,805.8	1,199	62.5	77.2	
SADARM	89	DE	485.7	535.1	10,288	139.0	204.8	-9,036	624.7	739.9	1,252	28.9	389.0	
SMART-T	99	PdE	766.5	780.4	313	-18.9	-5.9	7	747.6	774.5	320	-9.9	-8.9	
Subtotal			104,233.8	131,100.7		22,828.9	21,599.9		127,062.7	152,700.6		20.7	13.4	
NAVY:														
AAAV	93	DE	6,650.4	8,725.2	1,025	609.0	915.1	-	7,259.4	9,640.3	1,025	9.2	10.5	
AESA	00	DE	494.8	525.2	-	-23.5	-24.9	-	471.3	500.3	-	-4.7	-4.7	
AIM-9X	97	DE	2,464.0	3,232.9	10,049	-39.5	-275.6	93	2,424.5	2,957.3	10,142	-2.1	-9.1	
AV-8B REMAN	94	PdE	1,843.0	2,158.4	73	148.6	8.2	1	1,991.6	2,166.6	74	6.9	-0.6	
CEC	95	DE	2,221.9	2,573.1	183	1,451.3	1,665.3	89	3,673.2	4,238.4	272	47.8	38.9	
CVN-68 Class	95	PdE	8,467.9	9,838.0	2	964.1	327.0	-	9,432.0	10,165.0	2	11.4	3.3	
CVNX (RDT&E)	00	PE	3,159.8	3,587.6	-	196.1	243.6	-	3,355.9	3,831.2	-	6.2	6.8	
DD(X) (RDT&E)	96	PE	1,754.0	2,089.0	-	7,559.5	8,720.7	-	9,313.5	10,809.7	-	431.0	417.5	
DDG 51	87	PdE	16,953.7	20,117.5	23	32,116.4	45,909.2	41	49,070.1	66,026.7	64	14.2	11.8	
E-2C REPRO	94	PdE	2,627.7	3,187.9	36	881.2	724.6	5	3,508.9	3,912.5	41	19.9	10.3	
F/A-18 E/F	00	PdE	43,489.6	46,825.7	548	1,800.1	1,965.4	-	45,289.7	48,791.1	548	4.0	4.1	
JSOW	90	DE	6,927.2	11,205.9	23,924	-1,904.8	-4,132.7	-4,810	5,022.4	7,073.2	19,114	-18.0	-28.2	
LHD 1	82	DE	2,931.8	4,451.0	3	4,305.5	5,320.0	5	7,237.3	9,771.0	8	1.1	-14.3	
LPD 17	96	DE	9,018.1	10,761.8	12	3,921.4	4,618.9	-	12,939.5	15,380.7	12	43.5	42.1	
MH-60R	93	DE	4,020.5	5,636.4	188	3,135.7	3,760.5	55	7,156.2	9,396.9	243	52.0	43.1	
MH-60S	98	DE	2,769.0	3,154.0	166	1,933.7	2,233.5	71	4,702.7	5,387.5	237	27.2	25.0	
MIDS-LVT	92	DE	924.9	1,119.5	672	446.5	502.2	1,990	1,371.4	1,621.7	2,662	6.4	2.1	
NESP	90	PdE	1,876.6	2,373.7	393	-129.3	-380.4	103	1,747.3	1,993.3	496	-13.7	-21.8	
SSN 774 (VA CLASS)	95	DE	45,633.1	71,080.8	30	12,836.6	2,359.3	-	58,469.7	73,440.1	30	28.1	3.3	
STD MSL 2	84	DE	8,770.1	11,067.2	13,778	-530.3	-992.2	-2,113	8,239.8	10,075.0	11,665	12.7	21.4	
T-45TS	95	PdE	5,528.1	5,599.5	176	176.1	-29.9	7	5,704.2	5,569.6	183	1.0	-1.7	
T-AKE	00	DE	4,262.6	4,890.2	12	37.6	15.4	-	4,300.2	4,905.6	12	0.9	0.3	
TACTICAL TOMAHAWK	99	DE	1,683.7	1,863.4	1,365	313.1	306.5	360	1,996.8	2,169.9	1,725	5.7	3.3	
TRIDENT II MSL	83	PdE	26,556.3	35,518.5	845	-612.6	2,025.4	-277	25,943.7	37,543.9	568	14.3	29.3	
USMC H-1 UPGRADES	96	DE	2,792.5	3,547.5	284	2,350.7	2,687.1	-	5,143.2	6,234.6	284	84.2	75.7	
V-22	86	DE	23,073.0	29,662.3	913	6,431.7	16,578.5	-455	29,504.7	46,240.8	458	30.5	11.5	
Subtotal			236,894.3	304,792.2		78,374.9	95,050.7		315,269.2	399,842.9		19.5	9.7	
USAF:														
AEHF	02	PE/DE	3,798.1	4,071.0	2	1,451.2	1,490.3	3	5,249.3	5,561.3	5	38.2	36.6	
AMRAAM	92	PdE	12,278.2	13,112.4	15,450	-2,005.5	-2,728.2	-4,533	10,272.7	10,384.2	10,917	-0.4	2.5	
AWACS RSIP (E-3)	97	PdE	890.1	891.3	32	126.1	115.0	-	1,016.2	1,006.3	32	14.2	12.9	
B-1 CMUP	95	DE	334.4	1,115.2	198	477.9	448.7	-78	812.3	1,563.9	120	401.7	73.9	
C-130J	96	PdE	730.7	839.7	11	11,890.9	14,831.5	157	12,621.6	15,671.2	168	12.1	10.0	
C-17A	96	PdE	41,250.9	41,811.9	210	14,901.0	17,186.4	-30	56,151.9	58,998.3	180	44.9	54.9	
EELV	95	DE	13,116.6	17,347.8	181	1,118.3	1,037.3	1	14,234.9	18,385.1	182	7.5	5.1	

Program Acquisition Cost Summary In Millions of Dollars

As of Date: December 31, 2001

Weapon System	Base Year	Type of Baseline	Baseline Estimate			Changes To Date			Current Estimate			Percent Cost Change To Date Adjust for Qty	
			Cost		Quantity	Cost		Quantity	Cost		Quantity	Base Year \$	Current Year \$
			Base Year \$	Current Year \$		Base Year \$	Current Year \$		Base Year \$	Current Year \$			
F-22	90	DE	60,270.0	99,109.0	648	-6,140.8	-29,387.6	-307	54,129.2	69,721.4	341	21.4	6.3
GBS	97	DE	451.4	497.1	346	147.7	148.6	402	599.1	645.7	748	1.2	-1.4
GLOBAL HAWK	00	DE	4,350.3	5,394.0	63	1,626.5	1,452.6	-12	5,976.8	6,846.6	51	53.4	44.3
JASSM	95	DE	1,749.5	2,073.3	2,469	824.8	1,046.3	1,319	2,574.3	3,119.6	3,788	14.3	11.3
JDAM	95	DE/PdE	2,580.9	3,392.3	88,126	809.8	473.1	48,623	3,390.7	3,865.4	136,749	-4.4	-15.2
JPATS	02	DE/PdE	3,086.8	4,050.6	712	1,510.5	976.1	71	4,597.3	5,026.7	783	33.8	13.5
JSTARS	98	PdE	9,932.3	9,762.1	20	1.3	-134.1	-2	9,933.6	9,628.0	18	4.9	5.2
MINUTEMAN III GRP	93	DE/PdE	1,463.6	1,636.2	652	670.2	836.7	-30	2,133.8	2,472.9	622	52.7	58.7
MINUTEMAN III PRP	94	PdE	2,086.8	2,600.8	607	-147.5	-329.3	-1	1,939.3	2,271.5	606	-7.0	-12.6
NAS	90	DE	573.3	791.1	53	257.0	321.6	37	830.3	1,112.7	90	6.3	3.2
NAVSTAR GPS	79	PdE	9,967.7	13,177.8	27,412	319.6	1,117.2	226,253	10,287.3	14,295.0	253,665	-4.5	-11.2
NPOESS (RDT&E)	96	PE	4,314.2	5,329.0	5	239.8	37.5	1	4,554.0	5,366.5	6	1.1	-3.6
SBIRS (High)	95	DE	3,679.5	4,147.3	5	2,257.4	2,596.2	-	5,936.9	6,743.5	5	60.2	61.5
TITAN IV	85	DE	2,150.5	2,529.2	10	11,429.8	14,955.4	29	13,580.3	17,484.6	39	227.1	439.8
WIDEBAND GAP FILLER	01	PdE	980.4	1,042.5	3	-137.7	-165.6	-	842.7	876.9	3	-14.0	-15.9
Subtotal			180,036.2	234,721.6		41,628.3	26,325.7		221,664.5	261,047.3		26.9	20.0
DoD:													
CHEM DEMIL	94	PdE	13,471.1	15,310.3	15	6,823.7	8,391.7	-	20,294.8	23,702.0	15	50.7	54.8
JSF	02	PE/DE	64,659.8	121,400.0	-	12,870.8	5,058.3	2,866	177,530.6	226,458.3	2,866	7.8	2.3
JSIMS	01	DE	1,281.6	1,316.7	1	-21.7	-23.4	-	1,259.9	1,293.3	1	-1.7	-1.8
Subtotal			179,412.5	238,027.0		19,672.8	13,426.6		199,085.3	251,453.6		10.9	5.3
Grand Total			700,576.8	908,641.5		162,504.9	156,402.9		863,081.7	1,065,044.4		19.3	11.4

Distribution of Cost Changes (Base-Year Dollars)

As Of Date: December 31, 2001

Weapon System	Base Year	Cost Changes Between the Baseline and Current Estimate (Base-Year Dollars)													
		Quantity		Schedule		Engineering		Estimating		Other		Support		Total	
		This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date
ARMY:															
ABRAMS UPGRADE	95	-	488.8	-	-	-	141.0	-799.8	655.1	-	-	72.8	183.8	-727.0	1,468.7
ATACMS-BAT	91	122.9	-893.6	-0.3	40.1	2.4	312.1	392.1	1,792.1	-	-	-10.4	-36.9	506.7	1,213.8
ATIRCM/CMWS	96	-217.6	-992.7	84.1	-161.2	-	109.2	188.6	708.4	-	-	-38.6	-20.5	16.5	-356.8
BRADLEY UPGRADE	01	282.3	282.3	0.1	0.1	12.7	12.7	21.4	25.0	-	-	39.1	29.7	355.6	349.8
CGS	00	-	-20.4	-	-	-	248.8	-322.1	-296.3	-	-	-23.2	48.1	-345.3	-19.8
CH-47F	97	232.1	232.1	2.9	2.9	802.6	812.7	1,583.8	1,580.9	-	-	170.2	236.0	2,791.6	2,864.6
COMANCHE	00	-46.3	-46.3	200.7	200.7	759.2	759.2	760.4	760.4	-	-	-433.3	-433.3	1,240.7	1,240.7
CRUSADER (RDT&E)	95	-	118.6	-	582.4	-	780.6	-29.1	-23.6	-	-	-	-	-29.1	1,458.0
FECB2	00	-64.7	-64.7	77.4	77.4	105.2	105.2	-96.0	-78.8	-	-	127.8	114.9	149.7	154.0
FMTV	96	-	-97.2	-	42.8	52.9	781.5	135.8	2,182.8	-	-	68.6	-252.2	257.3	2,657.7
IAV	00	-7.1	-7.1	-	-	10.3	10.3	-5.6	-110.5	-	-	-26.9	-26.7	-29.3	-134.0
JAVELIN	97	208.1	112.2	-	-	-	7.3	135.8	222.6	-	-	-9.1	-4.1	334.8	338.0
LONGBOW APACHE	96	-349.5	-1,485.2	-	-	959.8	1,637.1	-292.3	587.3	-	-	-254.0	205.8	64.0	945.0
LONGBOW HELLFIRE	96	-	-41.8	-	-1.1	81.5	123.2	-6.7	48.1	-	-	2.8	2.8	77.6	131.2
MCS	80	579.8	952.1	-53.2	-76.6	217.1	362.2	-815.8	-1,018.5	-	-	1.6	145.3	-70.5	364.5
MLRS UPGRADE	98	1,172.6	1,925.9	-24.1	-13.2	-	-	3,969.9	3,924.6	-	-	293.7	378.7	5,412.1	6,216.0
PATRIOT PAC-3	88	104.4	505.1	-39.2	-300.6	7.6	503.4	703.7	2,952.4	-	-	12.1	157.1	788.6	3,817.4
SADARM	89	-	-0.9	-	24.2	-	55.9	-	55.8	-	-	-	4.0	0.0	139.0
SMART-T	99	149.0	63.5	-	-	-11.6	-29.8	-34.1	-54.9	-	-	-4.5	2.3	98.8	-18.9
Subtotal		2,166.0	1,030.7	248.4	417.9	2,999.7	6,732.6	5,490.0	13,912.9	-	-	-11.3	734.8	10,892.8	22,828.9
NAVY:															
AAAV	93	-	-	-0.6	-0.6	373.8	373.8	227.5	227.2	-	-	7.3	8.6	608.0	609.0
AESA	00	-	-	-	-	-	-	-23.5	-23.5	-	-	-	-	-23.5	-23.5
AIM-9X	97	-0.8	12.9	-	21.3	-	134.7	96.7	-9.0	-	-	-5.3	-199.4	90.6	-39.5
AV-8B REMAN	94	37.1	20.5	0.3	23.3	0.8	61.1	12.2	-71.2	-	-	-16.0	114.9	34.4	148.6
CEC	95	110.3	263.8	18.7	97.6	15.8	122.8	-159.0	1,159.2	-	-	195.7	-192.1	181.5	1,451.3
CVN-68 Class	95	-	-	-	-138.9	-	29.2	109.2	833.9	40.3	239.9	-	-	149.5	964.1
CVNX (RDT&E)	00	-	-	-	-	-	-	196.1	196.1	-	-	-	-	196.1	196.1
DD(X) (RDT&E)	96	-	-	-	-	3,196.5	4,720.9	1,458.3	2,838.6	-	-	-	-	4,654.8	7,559.5
DDG 51	87	3,997.4	26,032.4	52.7	89.1	230.6	1,546.8	1,927.8	4,448.1	-	-	-	-	6,208.5	32,116.4
E-2C REPRO	94	298.5	298.5	2.6	27.8	13.0	294.1	182.1	92.2	-	-	99.6	168.6	595.8	881.2
F/A-18 E/F	00	54.9	54.9	805.5	805.5	-	-	465.8	465.8	-	-	473.9	473.9	1,800.1	1,800.1
JSOW	90	144.9	-805.9	-	-	22.3	22.3	667.2	-941.9	-	-	-5.3	-179.3	829.1	-1,904.8
LHD 1	82	-	4,225.6	-189.8	-89.3	-	28.7	-78.9	137.7	-	-	-	2.8	-268.7	4,305.5
LPD 17	96	2,816.9	-	84.2	315.7	-	-	2,242.0	3,605.7	-	-	-	-	5,143.1	3,921.4
MH-60R	93	161.8	689.0	173.2	53.0	319.6	3.0	1,584.7	2,291.6	-	-	375.2	99.1	2,614.5	3,135.7
MH-60S	98	48.3	927.2	-	-	261.5	311.1	457.1	571.8	-	-	-33.7	123.6	733.2	1,933.7
MIDS-LVT	92	-30.2	364.5	0.2	0.2	8.4	-32.2	104.9	153.6	-	-	-1.7	-39.6	81.6	446.5
NESP	90	64.2	148.6	3.0	15.2	-	48.1	-50.0	-230.9	-	-	-6.6	-110.3	10.6	-129.3
SSN 774 (VA CLASS)	95	-	-	-	88.6	60.9	956.0	5,274.3	11,213.3	-	216.3	345.6	362.4	5,680.8	12,836.6
STD MSL 2	84	-	-1,455.6	-	355.9	-	219.0	245.0	270.5	-	-	37.7	79.9	282.7	-530.3
T-45TS	95	201.0	117.6	22.5	-65.9	3.0	31.5	-4.5	209.6	-	-	59.0	-116.7	281.0	176.1
T-AKE	00	-	-	-	-	-	-	37.6	37.6	-	-	-	-	37.6	37.6
TACTICAL TOMAHAWK	99	212.2	205.9	10.7	58.9	-	-	-2.7	-29.4	-	-	90.3	77.7	310.5	313.1
TRIDENT II MSL	83	1,807.7	-3,863.2	-	-	-	-	2,932.7	2,477.0	-	-	485.7	773.6	5,226.1	-612.6
USMC H-1 UPGRADES	96	-	-	32.6	27.8	139.2	360.0	1,401.6	1,480.6	-	-	446.9	482.3	2,020.3	2,350.7
V-22	86	710.2	-456.2	-	-383.6	570.3	837.0	2,609.2	7,396.1	-	-	1,213.6	-961.6	5,103.3	6,431.7
Subtotal		10,634.4	26,780.5	1,015.8	1,301.6	5,215.7	10,067.9	21,913.4	38,800.3	40.3	456.2	3,761.9	968.4	42,581.5	78,374.9
USAF:															
AEHF	02	-	-	302.2	302.2	-	-	1,512.5	1,149.0	-	-	-	-	1,814.7	1,451.2
AMRAAM	92	-	-1,965.1	-	783.8	-	451.4	22.5	-1,245.5	-	-	7.8	-30.1	30.3	-2,005.5
AWACS RSIP (E-3)	97	-	-	-	22.2	-	-	-3.0	-7.1	-	-	32.4	111.0	29.4	126.1
B-1 CMUP	95	-164.1	-172.5	-	105.0	-5.0	-10.9	127.1	532.4	-	18.7	-3.2	5.2	-45.2	477.9
C-130J	96	9,414.1	10,530.5	-	-239.7	-	0.4	-883.9	-637.3	-	-	1,687.2	2,237.0	10,217.4	11,890.9
C-17A	96	4,848.2	-2,512.0	291.6	1,016.1	17.1	267.0	1,996.8	11,601.4	68.7	411.0	4,669.6	4,117.5	11,892.0	14,901.0
EELV	95	126.9	126.9	-	-	-	-	880.6	991.4	-	-	-	-	1,007.5	1,118.3
F-22	90	1,922.3	-15,664.2	-87.9	1,853.3	618.3	1,221.5	98.2	8,565.4	-	-	-1,280.2	-2,116.8	1,270.7	-6,140.8

Distribution of Cost Changes (Base-Year Dollars)

As Of Date: December 31, 2001

Weapon System	Base Year	Cost Changes Between the Baseline and Current Estimate (Base-Year Dollars)													
		Quantity		Schedule		Engineering		Estimating		Other		Support		Total	
		This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date
GBS	97	97.2	140.6	-	24.5	-	4.3	15.6	-24.4	-	-	2.3	2.7	115.1	147.7
GLOBAL HAWK	00	-454.0	-454.0	-739.6	-739.6	2,557.1	2,557.1	179.1	240.8	-	-	39.9	22.2	1,582.5	1,626.5
JASSM	95	489.0	503.7	64.1	176.2	-	-47.4	187.3	156.3	-	-	26.7	36.0	767.1	824.8
JDAM	95	950.2	965.9	167.0	291.1	135.9	119.4	-168.3	-535.9	-	-	-27.8	-30.7	1,057.0	809.8
JPATS	02	347.9	347.9	-	-2.9	-	-	420.1	1,002.8	-	-	238.7	162.7	1,006.7	1,510.5
JSTARS	98	466.5	-463.6	-7.9	-7.9	13.3	431.4	146.9	-202.9	-	-	301.5	244.3	920.3	1.3
MINUTEMAN III GRP	93	-66.6	-66.6	-	82.0	-	-7.5	174.8	611.8	-	-	18.6	50.5	126.8	670.2
MINUTEMAN III PRP	94	-1.6	-1.6	-15.5	-15.5	-	-	-139.3	-130.4	-	-	-	-	-156.4	-147.5
NAS	90	11.2	208.0	1.4	52.4	0.8	32.5	71.0	-37.4	-	-	-18.7	1.5	65.7	257.0
NAVSTAR GPS	79	-295.5	809.2	-63.9	187.6	27.0	-253.1	254.5	-447.9	-	-	-2.9	23.8	-80.8	319.6
NPOESS (RDT&E)	96	191.6	191.6	-25.4	26.3	-140.5	-201.3	-17.3	223.2	-	-	-	-	8.4	239.8
SBIRS (High)	95	-	27.2	-	301.5	424.6	497.6	1,870.6	1,429.5	-	-	-46.1	1.6	2,249.1	2,257.4
TITAN IV	85	-	2,000.7	-	1,930.8	-	-1,637.2	-303.2	7,967.7	-	-	-30.8	1,167.8	-334.0	11,429.8
WIDEBAND GAP FILLER	01	-	-	-	-	-	-	-10.8	-136.4	-	-	-0.1	-1.3	-10.9	-137.7
Subtotal		17,883.3	-5,447.4	-113.9	6,149.4	3,648.6	3,425.2	6,431.8	31,066.5	68.7	429.7	5,614.9	6,004.9	33,533.4	41,628.3
DoD:															
CHEM DEMIL	94	-	-	3,114.9	3,114.9	-	-	5,116.0	3,701.2	-	7.6	-	-	8,230.9	6,823.7
JSF	02	-	-	1,414.0	-19.1	4,188.0	5,451.7	7,566.9	7,438.2	-	-	-	-	13,168.9	12,870.8
JSIMS	01	-	-	-	-	-	-	-22.9	-21.7	-	-	-	-	-22.9	-21.7
Subtotal		-	-	4,528.9	3,095.8	4,188.0	5,451.7	12,660.0	11,117.7	-	7.6	-	-	21,376.9	19,672.8
Grand Total		30,683.7	22,363.8	5,679.2	10,964.7	16,052.0	25,677.4	46,495.2	94,897.4	109.0	893.5	9,365.5	7,708.1	108,384.6	162,504.9

Distribution of Cost Changes (Then-Year Dollars)

As Of Date: December 31, 2001

Weapon System	Cost Changes Between the Baseline and Current Estimate (Current-Year Dollars)															
	Economic		Quantity		Schedule		Engineering		Estimating		Other		Support		Total	
	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date
ARMY:																
ABRAMS UPGRADE	111.4	-354.2	-	578.7	-18.4	-210.7	-	161.3	-1,064.3	755.9	-	-	91.1	203.2	-880.2	1,134.2
ATACMS-BAT	-36.5	-414.3	187.6	-1,587.6	129.8	614.1	3.4	383.3	450.2	2,281.7	-	-	-14.3	-49.6	720.2	1,227.6
ATIRCM/CMWS	28.3	-139.2	-278.2	-1,369.1	190.9	-74.7	-	113.0	283.1	956.0	-	-	-38.4	3.8	185.7	-510.2
BRADLEY UPGRADE	-19.7	-32.4	318.6	318.6	0.2	0.2	13.5	13.5	25.7	44.6	-	-	47.7	41.5	386.0	386.0
CGS	-0.3	-0.3	-	-21.1	-	-	-	313.5	-399.2	-371.4	-	-	-29.0	56.2	-428.5	-23.1
CH-47F	1.5	-111.0	325.3	325.3	77.8	74.5	1,145.3	1,163.7	1,557.2	1,546.8	-	-	525.3	599.1	3,632.4	3,598.4
COMANCHE	-407.0	-407.0	-37.1	-37.1	-628.8	-628.8	845.4	845.4	728.6	728.6	-	-	-729.8	-729.8	-228.7	-228.7
CRUSADER (RDT&E)	18.3	-233.9	-	140.0	-	675.6	-	936.2	-34.3	-11.6	-	-	-	-	-16.0	1,506.3
FBCB2	-9.9	-27.5	-85.7	-85.7	129.8	104.3	126.8	126.8	-101.4	-78.7	-	-	183.4	160.3	243.0	199.5
FMTV	-117.7	-3,388.5	-	-597.8	28.9	-433.3	73.6	1,048.7	208.5	2,937.2	-	-	91.7	-413.2	285.0	-846.9
IAV	-43.0	-43.0	-10.3	-10.3	-2.7	-2.7	11.3	11.3	-10.4	-91.2	-	-	-39.9	-39.9	-95.0	-175.8
JAVELIN	12.3	-68.0	231.4	84.2	-4.4	-19.3	-	7.0	167.8	302.7	-	-	-7.2	-12.9	399.9	293.7
Longbow Apache	95.4	-312.6	-450.0	-1,876.6	-3.1	33.8	1,086.1	1,881.8	-327.0	214.3	-	-	-305.6	181.6	95.8	122.3
Longbow Hellfire	10.5	-163.8	-	-54.7	-	7.2	95.2	142.7	-8.8	55.0	-	-	3.2	1.8	100.1	-11.8
MCS	-36.0	-3.5	1,427.5	2,332.4	341.1	824.4	198.3	483.3	-2,169.2	-3,241.7	-	-	-1.2	412.3	-239.5	807.2
MLRS Upgrade	26.9	-94.9	1,850.0	2,866.2	85.1	121.7	-	-	5,201.5	5,155.8	-	-	343.4	449.3	7,506.9	8,498.1
Patriot PAC-3	-22.8	-224.0	170.4	280.3	-31.3	479.1	11.0	750.4	990.8	3,922.0	-	-	18.3	216.4	1,136.4	5,424.2
SADARM	-	-4.4	-	-383.8	-	221.7	-	131.5	-	234.4	-	-	-	5.4	0.0	204.8
SMART-T	0.2	0.3	159.6	70.0	0.6	1.6	-12.1	-31.5	-27.6	-48.7	-	-	-4.5	2.4	116.2	-5.9
Subtotal	-388.1	-6,022.2	3,809.1	971.9	295.5	1,788.7	3,597.8	8,481.9	5,471.2	15,291.7	-	-	134.2	1,087.9	12,919.7	21,599.9
NAVY:																
AAAV	-149.0	-41.9	-	-	130.1	130.1	512.6	512.6	279.8	292.5	-	-	21.8	21.8	795.3	915.1
AESA	0.8	0.8	-	-	-	-	-	-	-25.7	-25.7	-	-	-	-	-24.9	-24.9
AIM-9X	-11.3	-257.1	-0.8	19.5	17.8	86.3	-	170.4	136.4	-8.8	-	-	-6.3	-285.9	135.8	-275.6
AV-8B Reman	7.4	-163.9	42.1	21.2	0.5	40.3	0.8	70.1	15.4	-94.3	-	-	-20.3	134.8	45.9	8.2
CEC	-24.0	-178.3	253.6	478.7	33.7	160.4	18.0	114.3	-177.5	1,290.4	-	-	205.5	-200.2	309.3	1,665.3
CVN-68 Class	106.6	-704.9	-	-	-	-141.4	-	-30.1	115.9	937.3	52.0	266.1	-	-	274.5	327.0
CVNX (RDT&E)	-8.5	-8.5	-	-	-	-	-	-	252.1	252.1	-	-	-	-	243.6	243.6
DD(X) (RDT&E)	20.1	-104.4	-	-	-	-	3,799.0	5,471.3	1,771.1	3,353.8	-	-	-	-	5,590.2	8,720.7
DDG 51	433.2	-4,703.6	6,231.7	38,949.9	27.7	1,067.2	352.0	2,349.9	3,174.5	8,245.8	-	-	-	-	10,219.1	45,909.2
E-2C Repro	8.0	-249.6	360.3	360.3	2.2	21.5	16.5	341.6	213.3	76.1	-	-	119.0	174.7	719.3	724.6
F/A-18 E/F	-83.7	-83.7	55.7	55.7	998.0	998.0	-	-	507.9	507.9	-	-	487.5	487.5	1,965.4	1,965.4
JSOW	-62.4	-448.8	245.3	-1,352.5	115.7	126.4	28.5	28.5	1,005.7	-2,166.8	-	-	-8.9	-319.5	1,323.9	-4,132.7
LHD 1	189.4	-1,187.3	-	6,952.9	-534.1	-902.5	-	40.5	-136.9	416.4	-	-	-	-	-481.6	5,320.0
LPD 17	-31.9	-393.7	3,606.0	64.9	256.7	695.5	-	-	2,772.3	4,252.2	-	-	-	-	6,603.1	4,618.9
MH-60R	-57.8	-564.9	242.2	928.0	499.7	436.7	434.6	-0.4	2,147.5	2,905.5	-	-	499.3	55.6	3,765.5	3,760.5
MH-60S	-41.3	-73.9	61.7	1,156.0	11.5	0.9	305.6	358.6	536.2	641.5	-	-	-47.7	150.4	826.0	2,233.5
MIDS-LVT	-3.2	-61.3	-36.1	469.5	-3.4	20.6	11.9	-46.9	126.2	169.9	-	-	-1.3	-49.6	94.1	502.2
NESP	8.8	-188.9	84.8	173.9	4.9	38.7	-	69.2	-79.7	-307.6	-	-	-5.5	-165.7	13.3	-380.4
SSN 774 (VA Class)	186.5	-13,532.0	-	-	345.1	1,353.1	75.0	1,272.3	6,723.1	12,545.6	-	280.0	432.9	440.3	7,762.6	2,359.3
STD MSL 2	0.6	-964.8	-	-2,767.3	-19.0	1,598.5	-	334.9	413.4	789.2	-	-	63.1	17.3	458.1	-992.2
T-45TS	5.9	14.5	230.0	63.6	25.1	-151.4	3.9	23.5	-4.8	181.5	-	-	67.4	-161.6	327.5	-29.9
T-AKE	-48.6	-48.6	-	-	24.1	24.1	-	-	39.9	39.9	-	-	-	-	15.4	15.4
Tactical Tomahawk	-47.3	-45.5	243.8	236.3	9.3	66.6	-	-	-17.5	-42.6	-	-	103.4	91.7	291.7	306.5
Trident II MSL	8.6	-413.1	3,604.6	-6,492.7	256.8	1,837.7	-	-	5,379.9	5,238.3	-	-	1,110.2	1,855.2	10,360.1	2,025.4
USMC H-1 Upgrades	-42.4	-244.4	-	-	123.4	118.3	162.2	430.7	1,718.1	1,794.2	-	-	562.4	588.3	2,523.7	2,687.1
V-22	-371.7	-6,117.6	1,269.2	11,818.9	850.0	-2,783.3	847.4	1,288.5	4,323.0	11,487.8	-	-	2,105.1	884.2	9,023.0	16,578.5
Subtotal	-7.2	-30,765.4	16,494.1	51,136.8	3,175.8	4,842.3	6,568.0	12,799.5	31,209.6	52,772.1	52.0	546.1	5,687.6	3,719.3	63,179.9	95,050.7
USAF:																
AEHF	-104.1	-122.6	-	-	291.1	291.1	-	-	1,608.0	1,321.8	-	-	-	-	1,795.0	1,490.3
AMRAAM	-6.4	-382.8	-	-2,977.1	14.0	1,770.1	-	571.9	28.0	-1,711.1	-	-	11.7	0.8	47.3	-2,728.2
AWACS RSIP (E-3)	1.9	-19.0	-	-	-2.2	24.9	-	-	-3.2	-10.8	-	-	35.5	119.9	32.0	115.0
B-1 CMUP	-7.9	-87.9	-205.2	-215.8	-	131.9	-5.8	-11.1	150.0	604.0	-	20.7	-3.8	6.9	-72.7	448.7
C-130J	2.3	-0.9	12,163.5	13,411.0	-79.8	-372.7	-	0.4	-1,132.0	-896.0	-	-	2,084.0	2,689.7	13,038.0	14,831.5
C-17A	557.3	-990.6	5,810.3	-3,725.7	1,092.5	4,390.2	13.4	277.6	1,112.7	11,536.1	64.0	412.0	5,488.0	5,286.8	14,138.2	17,186.4
EELV	-198.2	-475.8	141.1	141.1	20.3	126.1	-	-	1,177.3	1,245.9	-	-	-	-	1,140.5	1,037.3
F-22	125.6	-9,617.8	2,939.2	-33,510.9	-885.5	6,225.9	842.7	1,564.7	41.7	10,850.4	-	-	-2,227.1	-4,899.9	836.6	-29,387.6

Distribution of Cost Changes (Then-Year Dollars)

As Of Date: December 31, 2001

Weapon System	Cost Changes Between the Baseline and Current Estimate (Current-Year Dollars)															
	Economic		Quantity		Schedule		Engineering		Estimating		Other		Support		Total	
	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date
GBS	7.0	-13.9	111.9	157.7	-	27.9	-	4.6	10.2	-30.5	-	-	2.3	2.8	131.4	148.6
GLOBAL HAWK	-127.4	-57.3	-650.5	-650.5	-1,077.1	-1,077.1	2,947.0	2,947.0	230.7	267.4	-	-	28.4	23.1	1,351.1	1,452.6
JASSM	-3.0	-60.5	712.6	728.8	62.6	215.4	-	-56.3	210.2	170.7	-	-	35.8	48.2	1,018.2	1,046.3
JDAM	5.6	-259.0	1,149.2	1,166.0	159.6	315.7	153.5	134.5	-190.3	-822.3	-	-	-38.6	-61.8	1,239.0	473.1
JPATS	1.1	-600.1	380.0	380.0	-70.1	-121.3	-	-	502.4	1,209.9	-	-	238.7	107.6	1,052.1	976.1
JSTARS	12.2	-3.0	507.6	-606.7	-10.7	-10.7	14.5	486.9	176.0	-244.5	-	-	331.3	243.9	1,030.9	-134.1
MINUTEMAN III GRP	-6.1	-103.5	-78.3	-78.3	0.2	198.6	-	-5.3	210.3	753.0	-	-	22.4	72.2	148.5	836.7
MINUTEMAN III PRP	-19.0	-26.2	-2.1	-2.1	-21.0	-21.0	-	-	-190.2	-280.0	-	-	-	-	-232.3	-329.3
NAS	1.3	-63.1	15.5	287.2	14.9	120.1	0.9	42.1	100.7	-72.7	-	-	-22.2	8.0	111.1	321.6
NAVSTAR GPS	18.9	-1,676.9	-695.3	2,917.8	-175.9	758.1	44.1	-314.0	600.4	-713.9	-	-	65.1	146.1	-142.7	1,117.2
NPOESS (RDT&E)	36.2	-318.0	235.2	235.2	-36.1	117.4	-195.3	-262.4	-19.1	265.3	-	-	-	-	20.9	37.5
SBIRS (High)	9.3	-131.2	-	27.4	24.2	363.3	518.9	601.0	2,195.8	1,733.8	-	-	-52.6	1.9	2,695.6	2,596.2
TITAN IV	-32.1	-1,426.5	-	710.1	-	5,278.6	-	-2,735.8	-465.1	12,302.8	-	-	-45.8	826.2	-543.0	14,955.4
WIDEBAND GAP FILLER	-6.6	-6.6	-	-	-	-	-	-	-10.5	-157.6	-	-	-0.1	-1.4	-17.2	-165.6
Subtotal	267.9	-16,443.2	22,534.7	-21,604.8	-679.0	18,752.5	4,333.9	3,245.8	6,344.0	37,321.7	64.0	432.7	5,953.0	4,621.0	38,818.5	26,325.7
DoD:																
CHEM DEMIL	-0.7	-340.0	-	-	3,878.0	3,875.6	-	-	6,641.1	4,847.4	-	8.7	-	-	10,518.4	8,391.7
JSF	-4,734.5	-6,681.8	-	-	1,486.2	-384.2	4,670.0	6,090.0	6,497.8	6,034.3	-	-	-	-	7,919.5	5,058.3
JSIMS	-4.5	-0.9	-	-	-	-	-	-	-23.8	-22.5	-	-	-	-	-28.3	-23.4
Subtotal	-4,739.7	-7,022.7	-	-	5,364.2	3,491.4	4,670.0	6,090.0	13,115.1	10,859.2	-	8.7	-	-	18,409.6	13,426.6
Grand Total	-4,867.1	-60,253.5	42,837.9	30,503.9	8,156.5	28,874.9	19,169.7	30,617.2	56,139.9	116,244.7	116.0	987.5	11,774.8	9,428.2	133,327.7	156,402.9

Program Funding Status (Dollars in Millions)
As of Date: December 31, 2001

Weapon System	Prior Years	FY2002 Budget	FY2003 Budget	Balance of Program	Total
ARMY:					
ABRAMS UPGRADE	6,108.0	720.8	531.5	1,735.8	9,096.1
ATACMS-BAT	2,291.3	184.8	240.0	3,799.2	6,515.3
ATIRCM/CMWS	490.0	83.9	23.8	2,253.7	2,851.4
BRADLEY UPGRADE	1,794.3	401.3	406.9	1,643.3	4,245.8
CGS	714.7	33.4	16.6	32.4	797.1
CH-47F	197.8	131.1	228.6	6,156.3	6,713.8
COMANCHE	5,230.2	792.1	910.2	40,973.1	47,905.6
CRUSADER (RDT&E)	1,687.7	483.4	475.6	1,639.6	4,286.3
FBCB2	510.2	131.9	132.1	2,043.2	2,817.4
FMTV	2,877.4	466.1	683.4	14,047.5	18,074.4
IAV	1,206.0	775.6	1,014.0	3,948.8	6,944.4
JAVELIN	3,051.9	417.9	255.0	494.9	4,219.7
LONGBOW APACHE	5,048.6	952.0	940.4	1,910.5	8,851.5
LONGBOW HELLFIRE	2,023.2	251.4	197.4	151.8	2,623.8
MCS	200.0	45.8	55.0	738.5	1,039.3
MLRS UPGRADE	918.6	194.3	204.2	11,081.4	12,398.5
PATRIOT PAC-3	6,062.4	889.9	682.2	4,171.3	11,805.8
SADARM	737.0	2.9	-	-	739.9
SMART-T	495.5	46.0	74.1	158.9	774.5
Subtotal	41,644.8	7,004.6	7,071.0	96,980.2	152,700.6
NAVY:					
AAAV	532.6	260.6	315.9	8,531.2	9,640.3
AESA	103.2	110.2	107.1	179.8	500.3
AIM-9X	559.6	81.6	115.8	2,200.3	2,957.3
AV-8B REMAN	2,140.8	-	6.0	19.8	2,166.6
CEC	2,019.0	234.1	227.6	1,757.7	4,238.4
CVN-68 Class	9,958.7	65.8	91.7	48.8	10,165.0
CVNX (RDT&E)	537.7	291.5	266.0	2,736.0	3,831.2
DD(X) (RDT&E)	1,111.4	513.8	960.4	8,224.1	10,809.7
DDG 51	47,058.2	3,657.0	2,863.6	12,447.9	66,026.7
E-2C REPRO	2,682.7	339.4	318.5	571.9	3,912.5
F/A-18 E/F	18,821.9	3,267.6	3,173.5	23,528.1	48,791.1
JSOW	1,571.0	55.0	212.0	5,235.2	7,073.2
LHD 1	8,637.8	266.8	253.0	613.4	9,771.0
LPD 17	3,929.8	335.4	888.8	10,226.7	15,380.7
MH-60R	1,197.5	145.3	205.2	7,848.9	9,396.9
MH-60S	1,003.3	327.7	395.4	3,661.1	5,387.5
MIDS-LVT	955.2	108.9	113.2	444.4	1,621.7
NESP	1,680.4	77.0	76.5	159.4	1,993.3
SSN 774 (VA CLASS)	11,494.3	2,731.9	2,760.3	56,453.6	73,440.1
STD MSL 2	8,451.7	182.3	169.5	1,271.5	10,075.0
T-45TS	5,143.7	191.9	234.0	-	5,569.6
T-AKE	872.6	360.8	388.8	3,283.4	4,905.6
TACTICAL TOMAHAWK	446.4	133.0	187.4	1,403.1	2,169.9
TRIDENT II MSL	24,815.1	542.1	593.2	11,593.5	37,543.9
USMC H-1 UPGRADES	583.8	170.5	241.4	5,238.9	6,234.6
V-22	11,457.3	1,645.7	1,988.2	31,149.6	46,240.8
Subtotal	167,765.7	16,095.9	17,153.0	198,828.3	399,842.9
USAF:					
AEHF	494.8	544.8	986.3	3,535.4	5,561.3
AMRAAM	8,927.7	208.7	186.1	1,061.7	10,384.2
AWACS RSIP (E-3)	857.7	89.5	26.2	32.9	1,006.3
B-1 CMUP	778.0	133.3	95.6	557.0	1,563.9
C-130J	2,268.9	137.5	389.5	12,875.3	15,671.2
C-17A	34,948.6	3,802.7	3,910.9	16,336.1	58,998.3
EELV	1,696.8	552.6	292.4	15,843.3	18,385.1

Program Funding Status (Dollars in Millions)
As of Date: December 31, 2001

Weapon System	Prior Years	FY2002 Budget	FY2003 Budget	Balance of Program	Total
F-22	26,807.8	3,984.5	5,490.1	33,439.0	69,721.4
GBS	315.5	63.5	55.1	211.6	645.7
GLOBAL HAWK	153.8	312.9	523.5	5,856.4	6,846.6
JASSM	749.8	125.0	107.5	2,137.3	3,119.6
JDAM	1,183.7	295.1	654.4	1,732.2	3,865.4
JPATS	999.3	251.7	261.7	3,514.0	5,026.7
JSTARS	8,135.3	486.5	355.9	650.3	9,628.0
MINUTEMAN III GRP	1,204.8	220.6	243.3	804.2	2,472.9
MINUTEMAN III PRP	556.6	276.4	290.2	1,148.3	2,271.5
NAS	345.2	80.4	90.2	596.9	1,112.7
NAVSTAR GPS	10,122.5	499.6	669.8	3,003.1	14,295.0
NPOESS (RDT&E)	547.0	313.2	474.4	4,031.9	5,366.5
SBIRS (High)	2,352.5	479.7	837.3	3,074.0	6,743.5
TITAN IV	16,650.9	482.3	337.4	14.0	17,484.6
WIDEBAND GAP FILLER	108.3	453.0	207.8	107.8	876.9
Subtotal	120,205.5	13,793.5	16,485.6	110,562.7	261,047.3
DoD:					
CHEM DEMIL	8,331.1	1,252.9	1,657.7	12,460.3	23,702.0
JSF	4,229.9	1,619.9	3,632.2	216,976.3	226,458.3
JSIMS	597.9	164.6	144.8	386.0	1,293.3
Subtotal	13,158.9	3,037.4	5,434.7	229,822.6	251,453.6
Grand Total	342,774.9	39,931.4	46,144.3	636,193.8	1,065,044.4