

“Program”) for exascale computing, including the development of two or more exascale computing machine architectures, to promote the missions of the Department.

(2) Execution

(A) In general

In carrying out the Program, the Secretary shall—

(i) establish two or more National Laboratory partnerships with industry partners and institutions of higher education for the research and development of two or more exascale computing architectures across all applicable organizations of the Department;

(ii) conduct mission-related codesign activities in developing the exascale computing architectures under clause (i);

(iii) develop such advancements in hardware and software technology as are required to fully realize the potential of an exascale production system in addressing Department target applications and solving scientific problems involving predictive modeling and simulation and large scale data analytics and management;

(iv) explore the use of exascale computing technologies to advance a broad range of science and engineering; and

(v) provide, as appropriate, on a competitive, merit-reviewed basis, access for researchers in industries in the United States, institutions of higher education, National Laboratories, and other Federal agencies to the exascale computing systems developed pursuant to clause (i).

(B) Selection of partners

The Secretary shall select the partnerships with the computing facilities of the Department under subparagraph (A) through a competitive, peer-review process.

(3) Codesign and application development

(A) In general

The Secretary shall—

(i) carry out the Program through an integration of applications, computer science, applied mathematics, and computer hardware architecture using the partnerships established pursuant to paragraph (2) to ensure that, to the maximum extent practicable, two or more exascale computing machine architectures are capable of solving Department target applications and broader scientific problems, including predictive modeling and simulation and large scale data analytics and management; and

(ii) conduct outreach programs to increase the readiness for the use of such platforms by domestic industries, including manufacturers.

(B) Report

The Secretary shall submit to Congress a report describing—

(i) how the integration under subparagraph (A) is furthering application science data and computational workloads across application interests, including national

security, material science, physical science, cybersecurity, biological science, the Materials Genome and BRAIN Initiatives of the President, advanced manufacturing, and the national electric grid; and

(ii) the roles and responsibilities of National Laboratories and industry, including the definition of the roles and responsibilities within the Department to ensure an integrated program across the Department.

(4) Project review

(A) In general

The exascale architectures developed pursuant to partnerships established pursuant to paragraph (2) shall be reviewed through a project review process.

(B) Report

Not later than 90 days after September 28, 2018, the Secretary shall submit to Congress a report on—

(i) the results of the review conducted under subparagraph (A); and

(ii) the coordination and management of the Program to ensure an integrated research program across the Department.

(5) Annual reports

At the time of the budget submission of the Department for each fiscal year, the Secretary, in consultation with the members of the partnerships established pursuant to paragraph (2), shall submit to Congress a report that describes funding for the Program as a whole by functional element of the Department and critical milestones.

(Pub. L. 108–423, § 3, Nov. 30, 2004, 118 Stat. 2400; Pub. L. 115–246, title III, § 304(a)(3), Sept. 28, 2018, 132 Stat. 3145.)

REFERENCES IN TEXT

This subchapter, referred to in subsec. (c)(1), was in the original “this Act”, meaning Pub. L. 108–423, Nov. 30, 2004, 118 Stat. 2400, which is classified principally to this subchapter. For complete classification of this Act to the Code, see Short Title note set out under section 5501 of this title and Tables.

CODIFICATION

This section was enacted as part of the American Super Computing Leadership Act of 2017 which comprises this subchapter, and not as part of the High-Performance Computing Act of 1991 which comprises this chapter.

AMENDMENTS

2018—Subsec. (a)(1). Pub. L. 115–246, § 304(a)(3)(A), substituted “coordinated program across the Department” for “program”.

Subsec. (b)(2). Pub. L. 115–246, § 304(a)(3)(B), struck out “, which may include vector, reconfigurable logic, streaming, processor-in-memory, and multithreading architectures” before semicolon at end.

Subsec. (d). Pub. L. 115–246, § 304(a)(3)(C), added subsec. (d) and struck out former subsec. (d) which related to the establishment of a High-End Software Development Center.

§ 5543. Repealed. Pub. L. 114–329, title I, § 105(u), Jan. 6, 2017, 130 Stat. 2985

Section, Pub. L. 108–423, § 4, Nov. 30, 2004, 118 Stat. 2402, authorized appropriations for fiscal years 2005 to 2007.

**CHAPTER 82—LAND REMOTE SENSING
POLICY**

§ 5601. Transferred

CODIFICATION

Section, Pub. L. 102-555, §2, Oct. 28, 1992, 106 Stat. 4163, which related to findings, was transferred and is set out as a note under section 60101 of Title 51, National and Commercial Space Programs.

§ 5602. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section, Pub. L. 102-555, §3, Oct. 28, 1992, 106 Stat. 4164, provided definitions for this chapter. See section 60101 of Title 51, National and Commercial Space Programs.

SUBCHAPTER I—LANDSAT

§§ 5611 to 5615. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section 5611, Pub. L. 102-555, title I, §101, Oct. 28, 1992, 106 Stat. 4166, related to management of the Landsat Program. See section 60111 of Title 51, National and Commercial Space Programs.

Section 5612, Pub. L. 102-555, title I, §102, Oct. 28, 1992, 106 Stat. 4168, related to procurement of Landsat 7.

Section 5613, Pub. L. 102-555, title I, §103, Oct. 28, 1992, 106 Stat. 4168, related to data policy for Landsat 4 through 6.

Section 5614, Pub. L. 102-555, title I, §104, Oct. 28, 1992, 106 Stat. 4170, related to transfer of Landsat 6 program responsibilities. See section 60112 of Title 51.

Section 5615, Pub. L. 102-555, title I, §105, Oct. 28, 1992, 106 Stat. 4170, related to data policy for Landsat 7. See section 60113 of Title 51.

SUBCHAPTER II—LICENSING OF PRIVATE
REMOTE SENSING SPACE SYSTEMS

§§ 5621 to 5625. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section 5621, Pub. L. 102-555, title II, §201, Oct. 28, 1992, 106 Stat. 4171; Pub. L. 105-303, title I, §107(f)(1), Oct. 28, 1998, 112 Stat. 2854, related to general licensing authority. See section 60121 of Title 51, National and Commercial Space Programs.

Section 5622, Pub. L. 102-555, title II, §202, Oct. 28, 1992, 106 Stat. 4172; Pub. L. 105-303, title I, §107(f)(2), Oct. 28, 1998, 112 Stat. 2854, related to conditions for operation. See section 60122 of Title 51.

Section 5623, Pub. L. 102-555, title II, §203, Oct. 28, 1992, 106 Stat. 4172, related to administrative authority of Secretary. See section 60123 of Title 51.

Section 5624, Pub. L. 102-555, title II, §204, Oct. 28, 1992, 106 Stat. 4173, related to regulatory authority of Secretary. See section 60124 of Title 51.

Section 5625, Pub. L. 102-555, title II, §205, Oct. 28, 1992, 106 Stat. 4173, related to agency activities. See section 60125 of Title 51.

SUBCHAPTER III—RESEARCH,
DEVELOPMENT, AND DEMONSTRATION

§§ 5631 to 5633. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section 5631, Pub. L. 102-555, title III, §301, Oct. 28, 1992, 106 Stat. 4174, related to continued Federal research and development. See section 60131 of Title 51, National and Commercial Space Programs.

Section 5632, Pub. L. 102-555, title III, §302, Oct. 28, 1992, 106 Stat. 4174, related to availability of federally gathered unenhanced data. See section 60132 of Title 51.

Section 5633, Pub. L. 102-555, title III, §303, Oct. 28, 1992, 106 Stat. 4174, related to technology demonstration program. See section 60133 of Title 51.

SUBCHAPTER IV—ASSESSING OPTIONS FOR
SUCCESSOR LAND REMOTE SENSING
SYSTEM

§ 5641. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section, Pub. L. 102-555, title IV, §401, Oct. 28, 1992, 106 Stat. 4175, related to assessing options for successor land remote sensing system. See section 60134 of Title 51, National and Commercial Space Programs.

SUBCHAPTER V—GENERAL PROVISIONS

§§ 5651 to 5658. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section 5651, Pub. L. 102-555, title V, §501, Oct. 28, 1992, 106 Stat. 4176, related to nondiscriminatory data availability. See section 60141 of Title 51, National and Commercial Space Programs.

Section 5652, Pub. L. 102-555, title V, §502, Oct. 28, 1992, 106 Stat. 4176, related to archiving of data. See section 60142 of Title 51.

Section 5653, Pub. L. 102-555, title V, §503, Oct. 28, 1992, 106 Stat. 4177, related to nonreproduction of unenhanced data. See section 60143 of Title 51.

Section 5654, Pub. L. 102-555, title V, §504, Oct. 28, 1992, 106 Stat. 4177, related to reimbursement for assistance. See section 60144 of Title 51.

Section 5655, Pub. L. 102-555, title V, §505, Oct. 28, 1992, 106 Stat. 4177, related to acquisition of equipment. See section 60145 of Title 51.

Section 5656, Pub. L. 102-555, title V, §506, Oct. 28, 1992, 106 Stat. 4177, related to radio frequency allocation. See section 60146 of Title 51.

Section 5657, Pub. L. 102-555, title V, §507, Oct. 28, 1992, 106 Stat. 4178, related to consultation regarding national security, international obligations, status reports, and certain reimbursements. See section 60147 of Title 51.

Section 5658, Pub. L. 102-555, title V, §508, Oct. 28, 1992, 106 Stat. 4179, related to enforcement of prohibition of data use for commercial purposes. See section 60148 of Title 51.

SUBCHAPTER VI—PROHIBITION OF COM-
MERCIALIZATION OF WEATHER SAT-
ELLITES

§§ 5671, 5672. Repealed. Pub. L. 111-314, § 6, Dec. 18, 2010, 124 Stat. 3444

Section 5671, Pub. L. 102-555, title VI, §601, Oct. 28, 1992, 106 Stat. 4179, prohibited commercialization of weather satellite systems. See section 60161 of Title 51, National and Commercial Space Programs.

Section 5672, Pub. L. 102-555, title VI, §602, Oct. 28, 1992, 106 Stat. 4180, related to future considerations. See section 60162 of Title 51.

**CHAPTER 83—TELEPHONE DISCLOSURE
AND DISPUTE RESOLUTION**

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