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106TH CONGRESS
2D SESSION

H. R. 2086

[Report No. 106-472, Part I]

To authorize funding for networking and information technology research and development for fiscal years 2000 through 2004, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 9, 1999

Mr. SENSENBRENNER (for himself, Mr. BROWN of California, Mr. DAVIS of Virginia, Mrs. MORELLA, Mr. EWING, Mr. COOK, Mr. BRADY of Texas, Mr. EHLERS, Mr. ETHERIDGE, Mr. WELDON of Florida, Mr. KUYKENDALL, Ms. STABENOW, Mr. LUCAS of Oklahoma, Mr. SMITH of Michigan, Mr. DOYLE, Mr. ROHRABACHER, Ms. EDDIE BERNICE JOHNSON of Texas, Ms. JACKSON-LEE of Texas, Mr. CAPUANO, Mr. BARTLETT of Maryland, Mr. UDALL of Colorado, Ms. WOOLSEY, Mr. CALVERT, Mr. GUTKNECHT, Ms. LOFGREN, and Mr. GORDON) introduced the following bill; which was referred to the Committee on Science, and in addition to the Committee on Ways and Means, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

NOVEMBER 16, 1999

Reported from the Committee on Science with an amendment

[Strike out all after the enacting clause and insert the part printed in *italic*]

NOVEMBER 16, 1999

Referral to the Committee on Ways and Means extended for a period ending not later than February 29, 2000

FEBRUARY 3, 2000

Additional sponsors: Mr. CAMPBELL, Mr. LARSON, Mr. COSTELLO, Mr. BARTON of Texas, Mr. LAMPSON, Mr. BOEHLERT, Mr. DREIER, Mr. WU, Mr. LaFALCE, Mr. WICKER, Mr. ENGLISH, Mr. GOODLATTE, Mr. BAIRD, Mr. MARTINEZ, Mr. WEINER, Mr. BOUCHER, Mrs. BIGBERT, Ms. ESHOO, Mr. PICKERING, and Mr. BILBRAY

A BILL

To authorize funding for networking and information technology research and development for fiscal years 2000 through 2004, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 *This Act may be cited as the "Networking and Infor-*
5 *mation Technology Research and Development Act".*

6 **SEC. 2. FINDINGS.**

7 *The Congress makes the following findings:*

8 (1) *Information technology will continue to*
9 *change the way Americans live, learn, and work. The*
10 *information revolution will improve the workplace*
11 *and the quality and accessibility of health care and*
12 *education and make government more responsible and*
13 *accessible.*

14 (2) *Information technology is an imperative ena-*
15 *bling technology that contributes to scientific dis-*
16 *ciplines. Major advances in biomedical research, pub-*
17 *lic safety, engineering, and other critical areas de-*
18 *pend on further advances in computing and commu-*
19 *nications.*

1 (3) *The United States is the undisputed global*
2 *leader in information technology.*

3 (4) *Information technology is recognized as a*
4 *catalyst for economic growth and prosperity.*

5 (5) *Information technology represents one of the*
6 *fastest growing sectors of the United States economy,*
7 *with electronic commerce alone projected to become a*
8 *trillion-dollar business by 2005.*

9 (6) *Businesses producing computers, semiconduc-*
10 *tors, software, and communications equipment ac-*
11 *count for one-third of the total growth in the United*
12 *States economy since 1992.*

13 (7) *According to the United States Census Bu-*
14 *reau, between 1993 and 1997, the information tech-*
15 *nology sector grew an average of 12.3 percent per*
16 *year.*

17 (8) *Fundamental research in information tech-*
18 *nology has enabled the information revolution.*

19 (9) *Fundamental research in information tech-*
20 *nology has contributed to the creation of new indus-*
21 *tries and new, high-paying jobs.*

22 (10) *Our Nation's well-being will depend on the*
23 *understanding, arising from fundamental research, of*
24 *the social and economic benefits and problems arising*

1 *from the increasing pace of information technology*
2 *transformations.*

3 *(11) Scientific and engineering research and the*
4 *availability of a skilled workforce are critical to con-*
5 *tinued economic growth driven by information tech-*
6 *nology.*

7 *(12) In 1997, private industry provided most of*
8 *the funding for research and development in the infor-*
9 *mation technology sector. The information technology*
10 *sector now receives, in absolute terms, one-third of all*
11 *corporate spending on research and development in*
12 *the United States economy.*

13 *(13) The private sector tends to focus its spend-*
14 *ing on short-term, applied research.*

15 *(14) The Federal Government is uniquely posi-*
16 *tioned to support long-term fundamental research.*

17 *(15) Federal applied research in information*
18 *technology has grown at almost twice the rate of Fed-*
19 *eral basic research since 1986.*

20 *(16) Federal science and engineering programs*
21 *must increase their emphasis on long-term, high-risk*
22 *research.*

23 *(17) Current Federal programs and support for*
24 *fundamental research in information technology is in-*

1 adequate if we are to maintain the Nation's global
2 leadership in information technology.

3 **SEC. 3. AUTHORIZATION OF APPROPRIATIONS.**

4 (a) NATIONAL SCIENCE FOUNDATION. ~~D~~ Section 201(b)
5 of the High-Performance Computing Act of 1991 (15 U.S.C.
6 5521(b)) is amended~~D~~

7 (1) by striking "From sums otherwise authorized
8 to be appropriated, there" and inserting "There";

9 (2) by striking "1995; and" and inserting
10 "1995"; and

11 (3) by striking the period at the end and insert-
12 ing "; \$439,000,000 for fiscal year 2000;
13 \$468,500,000 for fiscal year 2001; \$493,200,000 for
14 fiscal year 2002; \$544,100,000 for fiscal year 2003;
15 and \$571,300,000 for fiscal year 2004. Amounts au-
16 thorized under this subsection shall be the total
17 amounts authorized to the National Science Founda-
18 tion for a fiscal year for the Program, and shall not
19 be in addition to amounts previously authorized by
20 law for the purposes of the Program."

21 (b) NATIONAL AERONAUTICS AND SPACE ADMINISTRA-
22 TION. ~~D~~ Section 202(b) of the High-Performance Computing
23 Act of 1991 (15 U.S.C. 5522(b)) is amended~~D~~

24 (1) by striking "From sums otherwise authorized
25 to be appropriated, there" and inserting "There";

1 (2) by striking "1995; and" and inserting
2 "1995"; and

3 (3) by striking the period at the end and insert-
4 ing "; \$164,400,000 for fiscal year 2000;
5 \$201,000,000 for fiscal year 2001; \$208,000,000 for
6 fiscal year 2002; \$224,000,000 for fiscal year 2003;
7 and \$231,000,000 for fiscal year 2004."

8 (c) *DEPARTMENT OF ENERGY.* ~~D~~ Section 203(e)(1) of
9 the High-Performance Computing Act of 1991 (15 U.S.C.
10 5523(e)(1)) is amended~~D~~

11 (1) by striking "1995; and" and inserting
12 "1995"; and

13 (2) by striking the period at the end and insert-
14 ing "; \$106,600,000 for fiscal year 2000;
15 \$103,500,000 for fiscal year 2001; \$107,000,000 for
16 fiscal year 2002; \$125,700,000 for fiscal year 2003;
17 and \$129,400,000 for fiscal year 2004."

18 (d) *NATIONAL INSTITUTE OF STANDARDS AND TECH-*
19 *NOLOGY.* ~~D~~ (1) Section 204(d)(1) of the High-Performance
20 Computing Act of 1991 (15 U.S.C. 5524(d)(1)) is
21 amended~~D~~

22 (A) by striking "1995; and" and inserting
23 "1995"; and

24 (B) by striking "1996; and" and inserting
25 "1996; \$9,000,000 for fiscal year 2000; \$9,500,000 for

1 *fiscal year 2001; \$10,500,000 for fiscal year 2002;*
 2 *\$16,000,000 for fiscal year 2003; and \$17,000,000 for*
 3 *fiscal year 2004; and"*.

4 (2) *Section 204(d) of the High-Performance Com-*
 5 *puting Act of 1991 (15 U.S.C. 5524(d)) is amended by*
 6 *striking "From sums otherwise authorized to be appro-*
 7 *priated, there" and inserting "There".*

8 (e) *NATIONAL OCEANIC AND ATMOSPHERIC ADMINIS-*
 9 *TRATION.* ~~§~~ *Section 204(d)(2) of the High-Performance*
 10 *Computing Act of 1991 (15 U.S.C. 5524(d)(2)) is*
 11 *amended* ~~§~~

12 (1) *by striking "1995; and" and inserting*
 13 *"1995;"; and*

14 (2) *by striking the period at the end and insert-*
 15 *ing "; \$13,500,000 for fiscal year 2000; \$13,900,000*
 16 *for fiscal year 2001; \$14,300,000 for fiscal year 2002;*
 17 *\$14,800,000 for fiscal year 2003; and \$15,200,000 for*
 18 *fiscal year 2004."*

19 (f) *ENVIRONMENTAL PROTECTION AGENCY.* ~~§~~ *Section*
 20 *205(b) of the High-Performance Computing Act of 1991 (15*
 21 *U.S.C. 5525(b)) is amended* ~~§~~

22 (1) *by striking "From sums otherwise authorized*
 23 *to be appropriated, there" and inserting "There";*

24 (2) *by striking "1995; and" and inserting*
 25 *"1995;"; and*

1 (3) *by striking the period at the end and insert-*
 2 *ing ``; \$4,200,000 for fiscal year 2000; \$4,300,000 for*
 3 *fiscal year 2001; \$4,500,000 for fiscal year 2002;*
 4 *\$4,600,000 for fiscal year 2003; and \$4,700,000 for*
 5 *fiscal year 2004.".*

6 **SEC. 4. NETWORKING AND INFORMATION TECHNOLOGY RE-**
 7 **SEARCH AND DEVELOPMENT.**

8 (a) *NATIONAL SCIENCE FOUNDATION.*Ⓓ *Section 201 of*
 9 *the High-Performance Computing Act of 1991 (15 U.S.C.*
 10 *5521) is amended by adding at the end the following new*
 11 *subsections:*

12 (c) *NETWORKING AND INFORMATION TECHNOLOGY*
 13 *RESEARCH AND DEVELOPMENT.*Ⓓ (1) *Of the amounts au-*
 14 *thorized under subsection (b), \$310,000,000 for fiscal year*
 15 *2000; \$333,000,000 for fiscal year 2001; \$352,000,000 for*
 16 *fiscal year 2002; \$390,000,000 for fiscal year 2003; and*
 17 *\$415,000,000 for fiscal year 2004 shall be available for*
 18 *grants for long-term basic research on networking and in-*
 19 *formation technology, with priority given to research that*
 20 *helps address issues related to high end computing and soft-*
 21 *ware; network stability, fragility, reliability, security (in-*
 22 *cluding privacy), and scalability; and the social and eco-*
 23 *nomic consequences of information technology.*

24 (2) *In each of the fiscal years 2000 and 2001, the*
 25 *National Science Foundation shall award under this sub-*

1 *section up to 20 large grants of up to \$1,000,000 each, and*
2 *in each of the fiscal years 2002, 2003, and 2004, the Na-*
3 *tional Science Foundation shall award under this sub-*
4 *section up to 30 large grants of up to \$1,000,000 each.*

5 “(3)(A) *Of the amounts described in paragraph (1),*
6 *\$40,000,000 for fiscal year 2000; \$40,000,000 for fiscal year*
7 *2001; \$45,000,000 for fiscal year 2002; \$45,000,000 for fis-*
8 *cal year 2003; and \$50,000,000 for fiscal year 2004 shall*
9 *be available for grants of up to \$5,000,000 each for Infor-*
10 *mation Technology Research Centers.*

11 “(B) *For purposes of this paragraph, the term ‘Infor-*
12 *mation Technology Research Centers’ means groups of 6 or*
13 *more researchers collaborating across scientific and engi-*
14 *neering disciplines on large-scale long-term research*
15 *projects which will significantly advance the science sup-*
16 *porting the development of information technology or the*
17 *use of information technology in addressing scientific issues*
18 *of national importance.*

19 “(d) **MAJOR RESEARCH EQUIPMENT.** *(1) In addition*
20 *to the amounts authorized under subsection (b), there are*
21 *authorized to be appropriated to the National Science*
22 *Foundation \$70,000,000 for fiscal year 2000, \$70,000,000*
23 *for fiscal year 2001, \$80,000,000 for fiscal year 2002,*
24 *\$80,000,000 for fiscal year 2003, and \$85,000,000 for fiscal*
25 *year 2004 for grants for the development of major research*

1 *equipment to establish terascale computing capabilities at*
2 *1 or more sites and to promote diverse computing architec-*
3 *tures. Awards made under this subsection shall provide for*
4 *support for the operating expenses of facilities established*
5 *to provide the terascale computing capabilities, with fund-*
6 *ing for such operating expenses derived from amounts avail-*
7 *able under subsection (b).*

8 “(2) *Grants awarded under this subsection shall be*
9 *awarded through an open, nationwide, peer-reviewed com-*
10 *petition. Awardees may include consortia consisting of*
11 *members from some or all of the following types of institu-*
12 *tions:*

13 “(A) *Academic supercomputer centers.*

14 “(B) *State-supported supercomputer centers.*

15 “(C) *Supercomputer centers that are supported*
16 *as part of federally funded research and development*
17 *centers.*

18 *Notwithstanding any other provision of law, regulation, or*
19 *agency policy, a federally funded research and development*
20 *center may apply for a grant under this subsection, and*
21 *may compete on an equal basis with any other applicant*
22 *for the awarding of such a grant.*

23 “(3) *As a condition of receiving a grant under this*
24 *subsection, an awardee must agree*Ⓓ

1 (A) to connect to the National Science Founda-
2 tion's Partnership for Advanced Computational In-
3 frastructure network;

4 (B) to the maximum extent practicable, to co-
5 ordinate with other federally funded large-scale com-
6 puting and simulation efforts; and

7 (C) to provide open access to all grant recipi-
8 ents under this subsection or subsection (c).

9 (e) INFORMATION TECHNOLOGY EDUCATION AND
10 TRAINING GRANTS.Ð

11 (1) INFORMATION TECHNOLOGY GRANTS.Ð The
12 National Science Foundation shall provide grants
13 under the Scientific and Advanced Technology Act of
14 1992 for the purposes of section 3(a) and (b) of that
15 Act, except that the activities supported pursuant to
16 this paragraph shall be limited to improving edu-
17 cation in fields related to information technology. The
18 Foundation shall encourage institutions with a sub-
19 stantial percentage of student enrollments from
20 groups underrepresented in information technology
21 industries to participate in the competition for grants
22 provided under this paragraph.

23 (2) INTERNSHIP GRANTS.Ð The National
24 Science Foundation shall provideÐ

1 `*(A) grants to institutions of higher edu-*
2 *cation to establish scientific internship programs*
3 *in information technology research at private*
4 *sector companies; and*

5 `*(B) supplementary awards to institutions*
6 *funded under the Louis Stokes Alliances for Mi-*
7 *nority Participation program for internships in*
8 *information technology research at private sector*
9 *companies.*

10 `*(3) MATCHING FUNDS.Ð Awards under para-*
11 *graph (2) shall be made on the condition that at least*
12 *an equal amount of funding for the internship shall*
13 *be provided by the private sector company at which*
14 *the internship will take place.*

15 `*(4) DEFINITION.Ð For purposes of this sub-*
16 *section, the term 'institution of higher education' has*
17 *the meaning given that term in section 1201(a) of the*
18 *Higher Education Act of 1965 (20 U.S.C. 1141(a)).*

19 `*(5) AVAILABILITY OF FUNDS.Ð Of the amounts*
20 *described in subsection (c)(1), \$10,000,000 for fiscal*
21 *year 2000, \$15,000,000 for fiscal year 2001,*
22 *\$20,000,000 for fiscal year 2002, \$25,000,000 for fis-*
23 *cal year 2003, and \$25,000,000 for fiscal year 2004*
24 *shall be available for carrying out this subsection.*

25 `*(f) EDUCATIONAL TECHNOLOGY RESEARCH.Ð*

1 `'(1) RESEARCH PROGRAM.Ð As part of its re-
2 sponsibilities under subsection (a)(1), the National
3 Science Foundation shall establish a research pro-
4 gram to develop, demonstrate, assess, and disseminate
5 effective applications of information and computer
6 technologies for elementary and secondary education.
7 Such program shallÐ

8 `'(A) support research projects, including
9 collaborative projects involving academic re-
10 searchers and elementary and secondary schools,
11 to develop innovative educational materials, in-
12 cluding software, and pedagogical approaches
13 based on applications of information and com-
14 puter technology;

15 `'(B) support empirical studies to determine
16 the educational effectiveness and the cost effec-
17 tiveness of specific, promising educational ap-
18 proaches, techniques, and materials that are
19 based on applications of information and com-
20 puter technologies; and

21 `'(C) include provision for the widespread
22 dissemination of the results of the studies carried
23 out under subparagraphs (A) and (B), including
24 maintenance of electronic libraries of the best

1 *educational materials identified accessible*
 2 *through the Internet.*

3 “(2) *REPLICATION.*” *The research projects and*
 4 *empirical studies carried out under paragraph (1)(A)*
 5 *and (B) shall encompass a wide variety of edu-*
 6 *cational settings in order to identify approaches, tech-*
 7 *niques, and materials that have a high potential for*
 8 *being successfully replicated throughout the United*
 9 *States.*

10 “(3) *AVAILABILITY OF FUNDS.*” *Of the amounts*
 11 *authorized under subsection (b), \$10,000,000 for fiscal*
 12 *year 2000, \$10,500,000 for fiscal year 2001,*
 13 *\$11,000,000 for fiscal year 2002, \$12,000,000 for fis-*
 14 *cal year 2003, and \$12,500,000 for fiscal year 2004*
 15 *shall be available for the purposes of this subsection.*

16 “(g) *PEER REVIEW.*” *All grants made under this sec-*
 17 *tion shall be made only after being subject to peer review*
 18 *by panels or groups having private sector representation.”.*

19 (b) *OTHER PROGRAM AGENCIES.*”

20 (1) *NATIONAL AERONAUTICS AND SPACE ADMIN-*
 21 *ISTRATION.*” *Section 202(a) of the High-Performance*
 22 *Computing Act of 1991 (15 U.S.C. 5522(a)) is*
 23 *amended by inserting “, and may participate in or*
 24 *support research described in section 201(c)(1)” after*
 25 *“and experimentation”.*

1 (2) *DEPARTMENT OF ENERGY.*§ Section 203(a)
2 of the High-Performance Computing Act of 1991 (15
3 U.S.C. 5523(a)) is amended by striking the period at
4 the end and inserting a comma, and by adding after
5 paragraph (4) the following:

6 `and may participate in or support research described in
7 section 201(c)(1).".

8 (3) *NATIONAL INSTITUTE OF STANDARDS AND*
9 *TECHNOLOGY.*§ Section 204(a)(1) of the High-Per-
10 formance Computing Act of 1991 (15 U.S.C.
11 5524(a)(1)) is amended by striking `; and" at the end
12 of subparagraph (C) and inserting a comma, and by
13 adding after subparagraph (C) the following:

14 `and may participate in or support research de-
15 scribed in section 201(c)(1); and".

16 (4) *NATIONAL OCEANIC AND ATMOSPHERIC AD-*
17 *MINISTRATION.*§ Section 204(a)(2) of the High-Per-
18 formance Computing Act of 1991 (15 U.S.C.
19 5524(a)(2)) is amended by inserting `; and may par-
20 ticipate in or support research described in section
21 201(c)(1)" after `agency missions".

22 (5) *ENVIRONMENTAL PROTECTION AGENCY.*§ Sec-
23 tion 205(a) of the High-Performance Computing Act
24 of 1991 (15 U.S.C. 5525(a)) is amended by inserting
25 `; and may participate in or support research de-

1 scribed in section 201(c)(1)" after "dynamics mod-
2 els".

3 **SEC. 5. NEXT GENERATION INTERNET.**

4 Section 103 of the High-Performance Computing Act
5 of 1991 (15 U.S.C. 5513) is amended

6 (1) by amending subsection (c) to read as fol-
7 lows:

8 " (c) *STUDY OF INTERNET PRIVACY.*

9 "(1) *STUDY.* Not later than 90 days after the
10 date of enactment of the Networking and Information
11 Technology Research and Development Act, the Na-
12 tional Science Foundation may enter into an ar-
13 rangement with the National Research Council of the
14 National Academy of Sciences for that Council to con-
15 duct a study of privacy on the Internet.

16 "(2) *SUBJECTS.* The study shall address

17 (A) research needed to develop technology
18 for protection of privacy on the Internet;

19 (B) current public and private plans for
20 the deployment of privacy technology, standards,
21 and policies;

22 (C) policies, laws, and practices under
23 consideration or formally adopted in other coun-
24 tries and jurisdictions to protect privacy on the
25 Internet;

1 `*(D) Federal legislation and other regu-*
 2 *latory steps needed to ensure the development of*
 3 *privacy technology, standards, and policies; and*

4 `*(E) other matters that the National Re-*
 5 *search Council determines to be relevant to Inter-*
 6 *net privacy.*

7 `*(3) TRANSMITTAL TO CONGRESS.*Ⓓ *The National*
 8 *Science Foundation shall transmit to the Congress*
 9 *within 21 months of the date of enactment of the Net-*
 10 *working and Information Technology Research and*
 11 *Development Act a report setting forth the findings,*
 12 *conclusions, and recommendations of the National Re-*
 13 *search Council.*

14 `*(4) FEDERAL AGENCY COOPERATION.*Ⓓ *Federal*
 15 *agencies shall cooperate fully with the National Re-*
 16 *search Council in its activities in carrying out the*
 17 *study under this subsection.*

18 `*(5) AVAILABILITY OF FUNDS.*Ⓓ *Of the amounts*
 19 *described in subsection (d)(2), \$900,000 shall be*
 20 *available for the study conducted under this sub-*
 21 *section."*; and

22 *(2) in subsection (d)*Ⓓ

23 *(A) in paragraph (1)*Ⓓ

24 *(i) by striking "1999 and" and insert-*
 25 *ing "1999,"; and*

1 (ii) by inserting `', \$15,000,000 for fis-
2 cal year 2001, and \$15,000,000 for fiscal
3 year 2002" after `fiscal year 2000";

4 (B) in paragraph (2), by inserting `', and
5 \$25,000,000 for fiscal year 2001 and \$25,000,000
6 for fiscal year 2002" after `Act of 1998";

7 (C) in paragraph (4)~~Ð~~

8 (i) by striking `1999 and" and insert-
9 ing `1999,"; and

10 (ii) by inserting `', \$10,000,000 for fis-
11 cal year 2001, and \$10,000,000 for fiscal
12 year 2002" after `fiscal year 2000"; and

13 (D) in paragraph (5)~~Ð~~

14 (i) by striking `1999 and" and insert-
15 ing `1999,"; and

16 (ii) by inserting `', \$5,500,000 for fis-
17 cal year 2001, and \$5,500,000 for fiscal
18 year 2002" after `fiscal year 2000".

19 **SEC. 6. REPORTING REQUIREMENTS.**

20 Section 101 of the High-Performance Computing Act
21 of 1991 (15 U.S.C. 5511) is amended~~Ð~~

22 (1) in subsection (b)~~Ð~~

23 (A) by redesignating paragraphs (1)
24 through (5) as subparagraphs (A) through (E),
25 respectively;

1 (B) by inserting "(1)" after "ADVISORY
2 COMMITTEE.D"; and

3 (C) by adding at the end the following new
4 paragraph:

5 "(2) In addition to the duties outlined in paragraph
6 (1), the advisory committee shall conduct periodic evalua-
7 tions of the funding, management, implementation, and ac-
8 tivities of the Program, the Next Generation Internet pro-
9 gram, and the Networking and Information Technology Re-
10 search and Development program, and shall report not less
11 frequently than once every 2 fiscal years to the Committee
12 on Science of the House of Representatives and the Com-
13 mittee on Commerce, Science, and Transportation of the
14 Senate on its findings and recommendations. The first re-
15 port shall be due within 1 year after the date of the enact-
16 ment of the Networking and Information Technology Re-
17 search and Development Act."; and

18 (2) in subsection (c)(1)(A) and (2), by inserting
19 "; including the Next Generation Internet program
20 and the Networking and Information Technology Re-
21 search and Development program" after "Program"
22 each place it appears.

1 **SEC. 7. EVALUATION OF CAPABILITIES OF FOREIGN**
2 **ENCRYPTION.**

3 (a) *STUDY.* The National Science Foundation shall
4 undertake a study comparing the availability of encryption
5 technologies in foreign countries to the encryption tech-
6 nologies subject to export restrictions in the United States.

7 (b) *REPORT TO CONGRESS.* Not later than 6 months
8 after the date of enactment of this Act, the National Science
9 Foundation shall transmit to the Congress a report on the
10 results of the study undertaken under subsection (a).

11 **SEC. 8. RESEARCH CREDIT MADE PERMANENT.**

12 (a) *IN GENERAL.* Section 41 of the Internal Revenue
13 Code of 1986 (relating to credit for increasing research ac-
14 tivities) is amended by striking subsection (h).

15 (b) *CONFORMING AMENDMENT.* Paragraph (1) of sec-
16 tion 45C(b) of such Code is amended by striking subpara-
17 graph (D).

18 (c) *EFFECTIVE DATE.* The amendments made by this
19 section shall apply to amounts paid or incurred after June
20 30, 1999.

21 **SEC. 9. STUDY OF APPROPRIATIONS IMPACT ON INFORMA-**
22 **TION TECHNOLOGY RESEARCH.**

23 Within 90 days after the date of the enactment of this
24 Act, the Comptroller General, in consultation with the Na-
25 tional Science and Technology Council and the President's
26 Information Technology Advisory Committee, shall trans-

1 *mit to the Congress a report on the impact on information*
2 *technology research of the fiscal year 2000 appropriations*
3 *acts for the Departments of Veterans Affairs and Housing*
4 *and Urban Development, and Independent Agencies; for the*
5 *Departments of Commerce, Justice, and State, the Judici-*
6 *ary, and Related Agencies; and for Energy and Water De-*
7 *velopment.*

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