

HR 4516

Department of Energy High-End Computing Revitalization Act of 2004

Congress: 108 (2003–2005, Ended)

Chamber: House

Policy Area: Science, Technology, Communications

Introduced: Jun 4, 2004

Current Status: Became Public Law No: 108-423.

Latest Action: Became Public Law No: 108-423. (Nov 30, 2004)

Law: 108-423 (Enacted Nov 30, 2004)

Official Text: <https://www.congress.gov/bill/108th-congress/house-bill/4516>

Sponsor

Name: Rep. Biggert, Judy [R-IL-13]

Party: Republican • **State:** IL • **Chamber:** House

Cosponsors (2 total)

Cosponsor	Party / State	Role	Date Joined
Rep. Davis, Lincoln [D-TN-4]	D · TN		Jun 4, 2004
Rep. Gordon, Bart [D-TN-6]	D · TN		Jul 1, 2004

Committee Activity

Committee	Chamber	Activity	Date
Energy and Natural Resources Committee	Senate	Reported By	Sep 28, 2004
Science, Space, and Technology Committee	House	Reported by	Jun 15, 2004

Subjects & Policy Tags

Policy Area:

Science, Technology, Communications

Related Bills

Bill	Relationship	Last Action
108 S 2176	Related bill	Jun 22, 2004: Committee on Energy and Natural Resources Subcommittee on Energy. Hearings held. With printed Hearing: S.Hrg. 108-674.

(This measure has not been amended since it was passed by the Senate on October 10, 2004. The summary of that version is repeated here.)

Department of Energy High-End Computing Revitalization Act of 2004 - (Sec. 3) Directs the Secretary of Energy to: (1) implement a research and development program (involving software and hardware development) to advance high-end computing systems; and (2) develop and deploy them for advanced scientific and engineering applications.

Details program functions, including research in: (1) multiple architectures, which may include vector, reconfigurable logic, streaming, processor-in-memory, and multithreading architectures; and (2) software development on optimal algorithms, programming environments, tools, languages, and operating systems for high-end computing systems, in collaboration with architecture development efforts.

Directs the Secretary to establish and operate facilities to: (1) conduct advanced scientific and engineering research and development using Leadership Systems; (2) develop potential advancements in high-end computing system hardware and software; and (3) provide access to such Systems on a competitive, merit-reviewed basis to researchers in U.S. industry, institutions of higher education, national laboratories, and other Federal agencies.

Directs the Secretary to: (1) establish at least one High-End Software Development Center which shall concentrate efforts to develop, test, maintain, and support optimal algorithms, programming environments, tools, languages, and operating systems for high-end computing systems; and (2) use the expertise of a Center to assess research and development in high-end computing system architecture.

(Sec. 4) Authorizes appropriations for FY 2005 through 2007.

(Sec. 5) Amends the National Science Foundation Authorization Act of 2002 to make the Department of Energy, along with the National Science Foundation and the National Aeronautics and Space Administration (NASA) (as under existing law), one of three specified Federal agencies jointly establishing the Astronomy and Astrophysics Advisory Committee.

Revises Advisory Committee membership to include three members selected by the Secretary of Energy.

(Sec. 6) Amends the the Metric Conversion Act of 1975 and the Savings in Construction Act of 1996 to repeal the expiration date of (thereby making permanent) Federal agency authority to require metric system specifications (subject to certain conditions for specifications that can only be satisfied by hard-metric versions) for concrete masonry units and recessed lighting fixtures in a solicitation for design or construction of a Federal facility within the United States or its territories.

Actions Timeline

- **Nov 30, 2004:** Signed by President.
- **Nov 30, 2004:** Became Public Law No: 108-423.
- **Nov 20, 2004:** Presented to President.
- **Nov 17, 2004:** Mrs. Biggert moved that the House suspend the rules and agree to the Senate amendment. (consideration: CR H9868-9869; text as House agreed to Senate amendment: CR H9868)
- **Nov 17, 2004:** DEBATE - The House proceeded with forty minutes of debate on H.R. 4516.
- **Nov 17, 2004:** Resolving differences -- House actions: On motion that the House suspend the rules and agree to the Senate amendment Agreed to by voice vote.
- **Nov 17, 2004:** On motion that the House suspend the rules and agree to the Senate amendment Agreed to by voice vote.
- **Nov 17, 2004:** Motion to reconsider laid on the table Agreed to without objection.
- **Nov 16, 2004:** Message on Senate action sent to the House.
- **Oct 10, 2004:** Measure laid before Senate by unanimous consent. (consideration: CR S11127-11183; text: CR S11180-11182)
- **Oct 10, 2004:** Passed/agreed to in Senate: Passed Senate with an amendment by Unanimous Consent.
- **Oct 10, 2004:** Passed Senate with an amendment by Unanimous Consent.
- **Sep 28, 2004:** Committee on Energy and Natural Resources. Reported by Senator Domenici with an amendment in the nature of a substitute. With written report No. 108-379.
- **Sep 28, 2004:** Placed on Senate Legislative Calendar under General Orders. Calendar No. 738.
- **Sep 15, 2004:** Committee on Energy and Natural Resources. Ordered to be reported with an amendment in the nature of a substitute favorably.
- **Jul 8, 2004:** Received in the Senate and Read twice and referred to the Committee on Energy and Natural Resources.
- **Jul 7, 2004:** Mrs. Biggert moved to suspend the rules and pass the bill, as amended.
- **Jul 7, 2004:** Considered under suspension of the rules. (consideration: CR H5208-5209)
- **Jul 7, 2004:** DEBATE - The House proceeded with forty minutes of debate on H.R. 4516.
- **Jul 7, 2004:** Passed/agreed to in House: On motion to suspend the rules and pass the bill, as amended Agreed to by voice vote.(text: CR H5208)
- **Jul 7, 2004:** On motion to suspend the rules and pass the bill, as amended Agreed to by voice vote. (text: CR H5208)
- **Jul 7, 2004:** Motion to reconsider laid on the table Agreed to without objection.
- **Jul 1, 2004:** Reported (Amended) by the Committee on Science. H. Rept. 108-578.
- **Jul 1, 2004:** Placed on the Union Calendar, Calendar No. 342.
- **Jun 25, 2004:** Mr. Boehlert asked unanimous consent that the Committee on Science, Space and Technology have until 4:00 p.m. on July 2 to file a report on H.R. 4516. Agreed to without objection.
- **Jun 16, 2004:** Committee Consideration and Mark-up Session Held.
- **Jun 16, 2004:** Ordered to be Reported (Amended) by Voice Vote.
- **Jun 15, 2004:** Subcommittee Consideration and Mark-up Session Held.
- **Jun 15, 2004:** Forwarded by Subcommittee to Full Committee by Voice Vote.
- **Jun 7, 2004:** Referred to the Subcommittee on Energy.
- **Jun 4, 2004:** Introduced in House
- **Jun 4, 2004:** Sponsor introductory remarks on measure. (CR E1052-1053)
- **Jun 4, 2004:** Referred to the House Committee on Science.

LegiList

CONGRESS, MADE CLEAR.

Search Every Federal Bill, Law, and Vote

LegiList is the fastest way to research Congress. Track any bill from introduction to enactment, see how every legislator voted, follow committee activity, and read the full text of every bill — all in one place, always up to date.

legilist.com

Free Course: Learn How Congress Actually Works

LegiList Learn is a free, self-paced course that walks through the entire legislative process — from drafting a bill to a presidential signature. Seven modules, plain language, no politics. Earn a certificate when you finish.

legilist.com/learn

Developer API: Build Apps on Legislative Data

The LegiList API gives developers direct access to bills, votes, legislators, committees, and more. Start free with 1,000 requests per day — no credit card required. Upgrade to Pro when you need to scale.

legilist.com/api

Public data belongs to the public. — legilist.com