

exception of parameters specified as controlled for Missile Technology (MT) concerns and 4A003.e (equipment performing analog-to-digital conversions exceeding the limits of 3A001.a.5.a). See § 740.7 of the EAR.

CIV: * * *

List of Items Controlled

Unit: * * *

Related Controls: * * *

Related Definitions: * * *

Items:

Note 1: 4A003 includes the following:

- Vector processors;
- Array processors;
- Digital signal processors;
- Logic processors;
- Equipment designed for "image enhancement";
- Equipment designed for "signal processing".

Note 2: The control status of the "digital computers" and related equipment described in 4A003 is determined by the control status of other equipment or systems provided:

- The "digital computers" or related equipment are essential for the operation of the other equipment or systems;
- The "digital computers" or related equipment are not a "principal element" of the other equipment or systems; and

N.B. 1: The control status of "signal processing" or "image enhancement" equipment specially designed for other equipment with functions limited to those required for the other equipment is determined by the control status of the other equipment even if it exceeds the "principal element" criterion.

N.B. 2: For the control status of "digital computers" or related equipment for telecommunications equipment, see Category 5, Part 1 (Telecommunications).

c. The "technology" for the "digital computers" and related equipment is determined by 4E.

- Designed or modified for "fault tolerance";

Note: For the purposes of 4A003.a., "digital computers" and related equipment are not considered to be designed or modified for "fault tolerance" if they utilize any of the following:

- Error detection or correction algorithms in "main storage";

- The interconnection of two "digital computers" so that, if the active central processing unit fails, an idling but mirroring central processing unit can continue the system's functioning;

- The interconnection of two central processing units by data channels or by use of shared storage to permit one central processing unit to perform other work until the second central processing unit fails, at which time the first central processing unit takes over in order to continue the system's functioning; or

- The synchronization of two central processing units by "software" so that one central processing unit recognizes when the other central processing unit fails and recovers tasks from the failing unit.

- "Digital computers" having a "composite theoretical performance"

("CTP") exceeding 190,000 million theoretical operations per second (MTOPS);

c. "Electronic assemblies" specially designed or modified to be capable of enhancing performance by aggregation of "computing elements" ("CEs") so that the "CTP" of the aggregation exceeds the limit in 4A003.b.;

Note 1: 4A003.c applies only to "electronic assemblies" and programmable interconnections not exceeding the limit in 4A003.b. when shipped as unintegrated "electronic assemblies". It does not apply to "electronic assemblies" inherently limited by nature of their design for use as related equipment controlled by 4A003.d, or 4A003.e.

Note 2: 4A003.c does not control "electronic assemblies" specially designed for a product or family of products whose maximum configuration does not exceed the limit of 4A003.b.

d. [RESERVED]

e. Equipment performing analog-to-digital conversions exceeding the limits in 3A001.a.5;

f. [RESERVED]

g. Equipment specially designed to provide external interconnection of "digital computers" or associated equipment that allows communications at data rates exceeding 1.25 Gbyte/s.

Note: 4A003.g does not control internal interconnection equipment (e.g., backplanes, buses) passive interconnection equipment, "network access controllers" or "communication channel controllers".

■ 20. In Supplement No. 1 to part 774 (the Commerce Control List), Category 4—Computers, Export Control Classification Number (ECCN) 4D001 is amended by revising the "Heading", License Requirements section, and the "items" paragraph in the List of Items Controlled section, to read as follows:

4D001 "Software" specially designed or modified for the "development", "production" or "use" of equipment or "software" controlled by 4A001 to 4A004, or 4D (except 4D980, 4D993 or 4D994), and other specified software, see List of Items Controlled.

License Requirements

Reason for Control: NS, CC, AT, NP, XP.

Control(s)	Country chart
NS applies to "software" for commodities or software controlled by 4A001 to 4A004, 4D001 to 4D003.	NS Column 1.
CC applies to "software" for computerized finger-print equipment controlled by 4A003 for CC reasons.	CC Column 1.
AT applies to entire entry	AT Column 1.

NP applies, unless a License Exception is available. See § 742.3(b) of the EAR for information on applicable licensing review policies.

XP applies to "software" for computers with a CTP greater than 190,000 MTOPS, unless a License Exception is available. XP

controls vary according to destination and end-user and end-use; however, XP does not apply to Canada. See § 742.12 of the EAR for additional information.

License Requirement Notes: See § 743.1 of the EAR for reporting requirements for exports under License Exceptions.

License Exceptions * * *

List of Items Controlled

Unit: * * *

Related Controls: * * *

Related Definitions: * * *

Items:

a. "Software" specially designed or modified for the "development", "production" or "use" of equipment or "software" controlled by 4A001 to 4A004, or 4D (except 4D980, 4D993 or 4D994).

b. "Software", other than that controlled by the heading, specially designed or modified for the "development" or "production" of:

- "Digital computers" having a "composite theoretical performance" ("CTP") exceeding 28,000 MTOPS; or
- "Electronic assemblies" specially designed or modified for enhancing performance by aggregation of "computing elements" ("CEs") so that the "CTP" of the aggregation exceeds the limit in 4D001.b.1.

■ 21. In Supplement No. 1 to part 774 (the Commerce Control List), Category 4—Computers, Export Control Classification Number (ECCN) 4D994 is amended by revising the "Heading", to read as follows:

4D994 "Software" other than that controlled in 4D001 specially designed or modified for the "development", "production", or "use" of equipment controlled by 4A101, 4A994, 4B994, and materials controlled by 4C994.

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■ 22. In Supplement No. 1 to part 774 (the Commerce Control List), Category 4—Computers, Export Control Classification Number (ECCN) 4E001 is amended by revising the "Heading", License Requirements section, and the "items" paragraph in the List of Items Controlled section, to read as follows:

4E001 "Technology" according to the General Technology Note, for the "development", "production" or "use" of equipment or "software" controlled by 4A (except 4A980, 4A993 or 4A994) or 4D (except 4D980, 4D993, 4D994), and other specified technology, see List of Items Controlled.

License Requirements

Reason for Control: NS, MT, CC, AT, NP, XP.

Control(s)	Country chart
NS applies to "technology" for commodities or software controlled by 4A001 to 4A004, 4D001 to 4D003.	NS Column 1.
MT applies to "technology" for items controlled by 4A001.a and 4A101 for MT reasons.	MT Column 1.