







These figures show 'visible' hosts - hosts behind firewalls are not visible and not counted in these figures.

The actual number of hosts that have access to information on the Internet is probably between 50 and 100 million.

Source is at http://www.isc.org/index.pl?/ops/ds

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|---|---|------------------------|
| Both z/OS V1R5 and | d V1R6 have been certified | |
| with the IPv6 Ready | logo | |
| IPv6 Ready Logo Program by IP | v6 Forum - Microsoft Internet Explorer | 6 |
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| 🕒 Back 🔹 🕥 🐇 📓 🏠 🔎 Search 👷 F | Favorites 🜒 Media 🚱 🔗 - 🍃 🦝 📃 🦓 | YOLE |
| Address 🗟 http://www.ipv6ready.org/logo_db/logo | _search2.php?logoid_number=01-0001568btm=Si 🗸 🛃 Go 🛛 Links 🎽 Norton AntiVirus 🛃 🗸 | |
| Item | Content | |
| Logo ID | 01-000156 | |
| Vendor Name | IBM Corporation | |
| Country Name | US | |
| Product Name (Original) | z/OS | |
| Product version (Original) | VIR5 | |
| Product Description (Original) | Highly secure scalable high-performance enterprise operating system | |
| Product Name (Update) | | |
| Product version (Update) | 2 | |
| Product Description (Update) | | |
| Product Category | Host | |
| Applied date | 20031217 | |
| Application ID | US-20031217-000136 | |
| Current Status | Approved | |
| Certificated Date | 20040326 | |
| 🕘 Done | 🔹 Internet | |
| CS z/OS V1R7 is in the proces | s of being certified too. | |
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|--|------------------------|
| Advanced sockets API for IPv6 | |
| Lets applications modify and receive information about packets | |
| r Control and modify outbound packet information, such as -First hop address and routing headers -Hop options and destination options -Traffic class -Packet fragmentation | |
| / Receive inbound packet information such as Arriving interface Destination IP address Hop limit Source routing IPv6 options (routing headers, destination options, etc.) set by the sender | |
| > Defined first in RFC 2292, then in RFC 3542 | |
| / Defined for use by 'advanced' IPv6 applications -For example, ping, traceroute, and routing daemons -Geared more towards applications using RAW sockets | |
| / Separate from the Basic IPv6 Socket APIs in RFC 3493 | |
| | |
| | |
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| I APIs are geared towards UDP an CF authentication to allow/disall cation is granular enough to specifionted only for z/OS UNIX callable vanced socket API options for IF | Id RAW sockets ow users and application y access restrictions for e e services and LE C/C++ Pv6 that are provided in | ons from using the APIs are provid rach option of the API. • APIs z/OS V1R7. | led. |
|--|--|---|--|
| Option Name | Data Path | Transports Supported | |
| IPV6_HOPOPTS | Outbound | UDP, RAW | |
| IPV6_RECVHOPOPTS | Inbound | UDP, RAW | |
| IPV6_RTHDR | Outbound | UDP, RAW | |
| IPV6_RECVRTHDR | Inbound | UDP, RAW | |
| IPV6_RTHDRDSTOPTS | Outbound | UDP, RAW | |
| IPV6_DSTOPTS | Outbound | UDP, RAW | |
| IPV6_RECVDSTOPTS | Inbound | UDP, RAW | |
| IPV6_RECVTCLASS | Inbound | TCP, UDP, RAW | |
| IPV6_TCLASS | Outbound | TCP, UDP, RAW | |
| IPV6_NEXTHOP | Outbound | UDP, RAW | |
| IPV6_RECVPATHMTU | Outbound | UDP, RAW | |
| IPV6_PATHMTU | Outbound | UDP, RAW | |
| | | | |
| | CF authentication to allow/disall cation is granular enough to specif orted only for z/OS UNIX callable vanced socket API options for IF Option Name IPV6_RECVROPOPTS IPV6_RECVROPOPTS IPV6_RECVROPOPTS IPV6_RECVRTHDR IPV6_RECVRTHDR IPV6_RECVDSTOPTS IPV6_RECVDSTOPTS IPV6_RECVDSTOPTS IPV6_RECVTCLASS IPV6_RECVTCLASS IPV6_NEXTHOP IPV6_RECVPATHMTU IPV6_RECVPATHMTU | CF authentication to allow/disallow users and application cation is granular enough to specify access restrictions for exported only for z/OS UNIX callable services and LE C/C++ vanced socket API options for IPv6 that are provided in Data Path Option Name Data Path IPV6_RECVHOPOPTS Outbound IPV6_RECVHOPOPTS Inbound IPV6_RECVHOPOPTS Outbound IPV6_RECVHOPOPTS Outbound IPV6_RECVENTIOR Outbound IPV6_RECVDSTOPTS Outbound IPV6_RECVDSTOPTS Outbound IPV6_RECVDSTOPTS Inbound IPV6_RECVDSTOPTS Inbound IPV6_RECVTCLASS Inbound IPV6_NEXTHOP Outbound IPV6_RECVPTHMTU Outbound IPV6_RECVPTHMTU Outbound | CF authentication to allow/disallow users and applications from using the APIs are provided cation is granular enough to specify access restrictions for each option of the API. orted only for z/OS UNIX callable services and LE C/C++ APIs vanced socket API options for IPv6 that are provided in z/OS V1R7. Option Name Data Path Transports IPv6_HOPOTS Outbound UDP, RAW IPv6_RECVHOPOPTS Inbound UDP, RAW IPv6_RECVRHDR Inbound UDP, RAW IPv6_RECVRINDR Inbound UDP, RAW IPv6_RECVRINDRS Outbound UDP, RAW IPv6_RECVTCLASS Inbound UDP, RAW IPv6_RECVTCLASS Inbound UDP, RAW IPv6_NEXTHOP Outbound UDP, RAW IPv6_NEXTHOP Outbound UDP, RAW IPv6_RECVPATHMTU Outbound UDP, RAW IPv6_RECVPATHMTU Outbound UDP, RAW |





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| Maintain 2 IPv6 routers in default list | |
| ➢IPv6 standards require a minimum of 2 default routers | |
| r Required for the IPv6-Ready logo certification | |
| >In certain situations, z/OS CS does not meet this requirement | |
| If default routes are being removed from the stack routing table by OMPROUTE due to lost network connectvitity, the number of default IPv6 routers may go to zero | |
| >When the last default route is deleted from the routing table | |
| Add the default routers back to the routing table | |
| >No new configuration options and no migration concerns | |
| | |
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