

**From:** <https://supportforums.cisco.com/thread/2082148?decorator=print&displayFullThread=true>

HowTo test: **test etherchannel load-balance interface port-channel {po-#} ip {ip-addr-1} {ip-addr-2}**  
 or on 6500's: **show lacp-channel traffic**  
 example at:  
[http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/catos/7.x/command/reference/sh\\_ml\\_n.html#wpxref14521](http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/catos/7.x/command/reference/sh_ml_n.html#wpxref14521)

## DISCUSSIONS

**252 Views** **4 Replies** Latest reply : May 4, 2011 4:15 PM by Rahul Kachalia



**fibernet570** 54 posts since Jun 17, 2010

# Cisco understanding etherchannels

I have an etherchannel between a Cisco 6513 and Cisco 4948. I see the load unevenly distributed, is be tweaked? I want all three interfaces on my Port-channel evenly distributed, see below the output of Cisco\_804. Please let me know if I have any reason to be concerned.

=====

Cisco\_111

Cisco\_111#show etherchannel 8 detail

Group state = L2

Ports: 3 Maxports = 8

Port-channels: 1 Max Port-channels = 1

Protocol: -

Minimum Links: 0

Ports in the group:

-----

Port: Gi1/7

-----=

Port state = Up Mstr In-Bndl

Channel group = 8 Mode = On Gchange = -

Port-channel = Po8 GC = - Pseudo port-channel = Po8

Port index = 0 Load = 0x49 Protocol = -

Age of the port in the current state: 652d:09h:57m:57s

Port: Gi1/8

-----

Port state = Up Mstr In-Bndl

Channel group = 8 Mode = On Gchange = -

Port-channel = Po8 GC = - Pseudo port-channel = Po8

Port index = 1 Load = 0x92 Protocol = -

Age of the port in the current state: 651d:21h:49m:56s

Port: Gi7/2

-----

Port state = Up Mstr In-Bndl

```

Channel group = 8      Mode = On      Gchange = -
Port-channel = Po8    GC = -      Pseudo port-channel = Po8
Port index  = 2      Load = 0x24  Protocol = -

```

Age of the port in the current state: 0d:16h:45m:40s

Port-channels in the group:

-----  
Port-channel: Po8  
-----

```

Age of the Port-channel = 652d:10h:17m:14s
Logical slot/port = 14/6      Number of ports = 3
GC = 0x00000000      HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = -
Fast-switchover = disabled

```

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	49	Gi1/7	On 3	
1	92	Gi1/8	On 3	
2	24	Gi7/2	On 2	

```

Time since last port bundled: 0d:16h:45m:40s Gi7/2
Time since last port Un-bundled: 0d:18h:01m:30s Gi7/2

```

Last applied Hash Distribution Algorithm: Fixed

Cisco\_111#show int gig 1/7

```

GigabitEthernet1/7 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 0111.11f7.3d7e (bia 0111.11f7.3d7e)
Description: to 8th floor switch, pending specifics
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 2/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
input flow-control is off, output flow-control is on
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:19, output 00:00:09, output hang never
Last clearing of "show interface" counters 1y35w
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 10442000 bits/sec, 4698 packets/sec
5 minute output rate 3017000 bits/sec, 2064 packets/sec
 33229354426 packets input, 9610692825893 bytes, 0 no buffer
Received 13373857086 broadcasts (448935947 multicasts)
0 runs, 0 giants, 0 throttles

```

```
0 input errors, 0 CRC, 2 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
47867286847 packets output, 14899264756853 bytes, 0 underruns
0 output errors, 0 collisions, 1 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 5837 PAUSE output
0 output buffer failures, 0 output buffers swapped out
```

```
Cisco_111#show int gig 1/8
```

```
GigabitEthernet1/8 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 0111.11f7.3d7f (bia 0111.11f7.3d7f)
Description: to 8th floor switch, pending specifics
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 2/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
input flow-control is off, output flow-control is on
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:17, output 00:00:40, output hang never
Last clearing of "show interface" counters 1y35w
Input queue: 0/2000/1/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 8033000 bits/sec, 3128 packets/sec
5 minute output rate 3981000 bits/sec, 1025 packets/sec
 39489248888 packets input, 11322830685429 bytes, 0 no buffer
  Received 17821844289 broadcasts (617308881 multicasts)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 1 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
27487472499 packets output, 16430125751662 bytes, 0 underruns
  0 output errors, 0 collisions, 1 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 9614 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
```

```
Cisco_111#show int gig 7/2
```

```
GigabitEthernet7/2 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 0111.baba.ab79 (bia 0111.baba.ab79)
Description: to 8th floor switch, pending specifics
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 11/255, rxload 4/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
Media-type configured as SFP connector
input flow-control is off, output flow-control is on
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:39, output 00:00:06, output hang never
```

```

Last clearing of "show interface" counters 1y35w
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 17781000 bits/sec, 5121 packets/sec
5 minute output rate 43268000 bits/sec, 5137 packets/sec
  111982051 packets input, 40245236643 bytes, 0 no buffer
  Received 103528126 broadcasts (102240560 multicasts)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  78147717 packets output, 70641896104 bytes, 0 underruns
  0 output errors, 0 collisions, 4 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out

```

```

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```

Cisco\_804

Cisco\_804#show etherchannel 8 detail

Group state = L2

Ports: 3 Maxports = 8

Port-channels: 1 Max Port-channels = 1

Protocol: -

Ports in the group:

Port: Gi1/45

Port state = Up Mstr In-Bndl

Channel group = 8 Mode = On/FEC Gchange = -

Port-channel = Po8 GC = - Pseudo port-channel = Po8

Port index = 0 Load = 0x00 Protocol = -

Age of the port in the current state: 49d:17h:02m:47s

Port: Gi1/46

Port state = Up Mstr In-Bndl

Channel group = 8 Mode = On/FEC Gchange = -

Port-channel = Po8 GC = - Pseudo port-channel = Po8

Port index = 1 Load = 0x00 Protocol = -

Age of the port in the current state: 49d:17h:02m:47s

Port: Gi1/47

Port state = Up Mstr In-Bndl

Channel group = 8 Mode = On/FEC Gchange = -

Port-channel = Po8 GC = - Pseudo port-channel = Po8

Port index = 2      Load = 0x00      Protocol = -

Age of the port in the current state: 00d:16h:46m:04s

Port-channels in the group:

-----  
Port-channel: Po8

-----  
Age of the Port-channel = 49d:17h:02m:47s  
Logical slot/port = 11/8      Number of ports = 3  
GC = 0x00000000  
Port state = Port-channel Ag-Inuse  
Protocol = -

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	Gi1/45	On/FEC	0
1	00	Gi1/46	On/FEC	0
2	00	Gi1/47	On/FEC	0

Time since last port bundled: 00d:16h:46m:04s    Gi1/47

Cisco\_804#show int gig 1/45

GigabitEthernet1/45 is up, line protocol is up (connected)

Hardware is Gigabit Ethernet Port, address is 0111.0c0c.f06c (bia 0111.0c0c.f06c)

MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,

reliability 255/255, txload 2/255, rxload 1/255

Encapsulation ARPA, loopback not set

Keepalive set (10 sec)

Full-duplex, 1000Mb/s, link type is auto, media type is 1000BaseLH

Media-type configured as SFP connector

input flow-control is on, output flow-control is off

ARP type: ARPA, ARP Timeout 04:00:00

Last input 00:00:14, output never, output hang never

Last clearing of "show interface" counters never

Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0

Queueing strategy: fifo

Output queue: 0/40 (size/max)

5 minute input rate 3023000 bits/sec, 2065 packets/sec

5 minute output rate 10506000 bits/sec, 4723 packets/sec

52696526831 packets input, 18338637710503 bytes, 0 no buffer

Received 22981475103 broadcasts (204563236 multicast)

4 runts, 0 giants, 0 throttles

4 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored

0 input packets with dribble condition detected

33632581601 packets output, 9752747146782 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

0 babbles, 0 late collision, 0 deferred

0 lost carrier, 0 no carrier

0 output buffer failures, 0 output buffers swapped out

```
Cisco_804#show int gig 1/46
```

```
GigabitEthernet1/46 is up, line protocol is up (connected)
Hardware is Gigabit Ethernet Port, address is 0111.0c0c.f06d (bia 0111.0c0c.f06d)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 2/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, link type is auto, media type is 1000BaseLH
Media-type configured as SFP connector
input flow-control is on, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:03, output never, output hang never
Last clearing of "show interface" counters 12w5d
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 3884000 bits/sec, 1027 packets/sec
5 minute output rate 8029000 bits/sec, 3119 packets/sec
 7323736082 packets input, 4572076921687 bytes, 0 no buffer
Received 218840988 broadcasts (55201181 multicast)
 0 runts, 0 giants, 0 throttles
 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
 0 input packets with dribble condition detected
10042206453 packets output, 2381759504055 bytes, 0 underruns
 0 output errors, 0 collisions, 0 interface resets
 0 babbles, 0 late collision, 0 deferred
 0 lost carrier, 0 no carrier
 0 output buffer failures, 0 output buffers swapped out
```

```
Cisco_804#show int gig 1/47
```

```
GigabitEthernet1/47 is up, line protocol is up (connected)
Hardware is Gigabit Ethernet Port, address is 0111.0c0c.f06e (bia 0111.0c0c.f06e)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 4/255, rxload 10/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, link type is auto, media type is No Gbic
Media-type configured as SFP connector
input flow-control is on, output flow-control is off
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:29, output never, output hang never
Last clearing of "show interface" counters never
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 42661000 bits/sec, 5089 packets/sec
5 minute output rate 17610000 bits/sec, 5104 packets/sec
 76975168 packets input, 70652288330 bytes, 0 no buffer
Received 3290385 broadcasts (3004895 multicast)
 3 runts, 0 giants, 0 throttles
 3 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
 0 input packets with dribble condition detected
110786089 packets output, 40179245257 bytes, 0 underruns
```

0 output errors, 0 collisions, 0 interface resets  
0 babbles, 0 late collision, 0 deferred  
0 lost carrier, 0 no carrier  
0 output buffer failures, 0 output buffers swapped out  
=====

Mn

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**Average Rating: 5 (1 Votes)**

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**IAN**  
**WHITMORE**



409 posts since  
Dec 11, 2003

May 4, 2011 10:12 AM (in response to fibernet570)

**Re: Cisco understanding etherchannels**

I don't think you have reason to be concerned.

Take a look at this document that explains it a little bit and gives you the opti that more evenly distributes the load. You can even test which link the traffic

[http://www.cisco.com/en/US/tech/tk389/tk213/technologies\\_tech\\_note09186](http://www.cisco.com/en/US/tech/tk389/tk213/technologies_tech_note09186)

HTH,  
Ian

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**Average Rating: 0 (0 Votes)**

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**Rahul**  
**Kachalia**



75 posts since  
Sep 26, 2000

May 4, 2011 12:20 PM (in response to fibernet570)

**Re: Cisco understanding etherchannels**

The best-practice and recommendation to bundle number of member-links is 2, 4, 8 in single L2 or L3 EtherChannel. This is by number of buckets. Refer to Figure 2-28/Chapter 2 in following design guide

[http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Borderless\\_/Borderless\\_Campus\\_1.0\\_Design\\_Guide.pdf](http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Borderless_/Borderless_Campus_1.0_Design_Guide.pdf)

thanks,  
rahul.

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**Average Rating: 0 (0 Votes)**

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**fibernet570**

54 posts since  
Jun 17, 2010

May 4, 2011 3:24 PM (in response to Rahul Kachalia)

**Re: Cisco understanding etherchannels**

Hi Rahul,

I have another Cisco 6513 that is using two Port-channels, should I see 4 members or should I have only two members.

**Cisco\_6513-01#show etherchannel 9 detail**

Group state = L2

**Ports: 2** Maxports = 8

Port-channels: 1 Max Port-channels = 1

Protocol: -

Minimum Links: 0

Ports in the group:

-----

Port: Gi1/3

-----

Port state = Up Mstr In-Bndl

Channel group = 9 Mode = On Gchange = -

Port-channel = Po9 GC = - Pseudo port-channel = Po9

Port index = 0 **Load = 0x55** Protocol = -

Age of the port in the current state: 187d:03h:10m:06s

Port: Gi1/4

-----

Port state = Up Mstr In-Bndl

Channel group = 9 Mode = On Gchange = -

Port-channel = Po9 GC = - Pseudo port-channel = Po9

Port index = 1 **Load = 0xAA** Protocol = -

Age of the port in the current state: 187d:03h:10m:05s

Port-channels in the group:

-----

Port-channel: Po9

-----

Age of the Port-channel = 187d:03h:12m:20s

Logical slot/port = 14/2 Number of ports = 2

GC = 0x00000000 HotStandBy port = null

Port state = Port-channel Ag-Inuse

Protocol = -

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	<b>55</b>	Gi1/3	On	4

-----+-----+-----+-----+-----

0 **55** Gi1/3 On 4

1 AA Gi1/4 On 4

Time since last port bundled: 187d:03h:10m:06s Gi1/4

```
Cisco_6513-01# show int gig 1/3
GigabitEthernet1/3 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 1234.5678.acf2 (bia 1234.5678.acf2)
MTU 9216 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 5/255, rxload 2/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
input flow-control is off, output flow-control is off
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:18, output 00:00:56, output hang never
Last clearing of "show interface" counters 18w4d
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 10796000 bits/sec, 6025 packets/sec
5 minute output rate 22198000 bits/sec, 4975 packets/sec
  106849876679 packets input, 16836142458883 bytes, 0 no buffer
  Received 1308120958 broadcasts (1171259400 multicasts)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  26657285211 packets output, 10715422683700 bytes, 0 underruns
  0 output errors, 0 collisions, 0 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
Cisco_6513-01# show int gig 1/4
GigabitEthernet1/4 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 1234.5678.acf3 (bia 1234.5678.acf3)
MTU 9216 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 4/255, rxload 10/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
input flow-control is off, output flow-control is off
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:04, output 00:00:00, output hang never
Last clearing of "show interface" counters 18w4d
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 42993000 bits/sec, 10472 packets/sec
5 minute output rate 17921000 bits/sec, 7509 packets/sec
  171942012970 packets input, 48877528708260 bytes, 0 no buffer
```

```

Received 205673779 broadcasts (175882802 multicasts)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
46595096154 packets output, 15289314372580 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out

```

```
Cisco_6513-01#
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Cisco_6513-01#
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Cisco_6513-01#
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Cisco_6513-01#
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Cisco_6513-01#
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Cisco_6513-01#
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Cisco_6513-01#
```

```
Cisco_6513-01#show etherchannel 3 detail
```

```
Group state = L2
```

```
Ports: 2 Maxports = 8
```

```
Port-channels: 1 Max Port-channels = 1
```

```
Protocol: -
```

```
Minimum Links: 0
```

```
Ports in the group:
```

```
-----
```

```
Port: Gi1/1
```

```
-----
```

```
Port state = Up Mstr In-Bndl
```

```
Channel group = 3 Mode = On Gchange = -
```

```
Port-channel = Po3 GC = - Pseudo port-channel = Po3
```

```
Port index = 0 Load = 0x55 Protocol = -
```

```
Age of the port in the current state: 187d:03h:11m:49s
```

```
Port: Gi1/2
```

```
-----
```

```
Port state = Up Mstr In-Bndl
```

```
Channel group = 3 Mode = On Gchange = -
```

```
Port-channel = Po3 GC = - Pseudo port-channel = Po3
```

```
Port index = 1 Load = 0xAA Protocol = -
```

```
Age of the port in the current state: 187d:03h:11m:49s
```

```
Port-channels in the group:
```

```
-----
```

Port-channel: Po3

-----

Age of the Port-channel = 187d:03h:14m:03s  
 Logical slot/port = 14/1      Number of ports = 2  
 GC = 0x00000000      HotStandBy port = null  
 Port state = Port-channel Ag-Inuse  
 Protocol = -

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	55	Gi1/1	On 4	
1	AA	Gi1/2	On 4	

Time since last port bundled: 187d:03h:11m:49s Gi1/2

Cisco\_6513-01#

Cisco\_6513-01#

Cisco\_6513-01#

Cisco\_6513-01#show int gig 1/1

```
GigabitEthernet1/1 is up, line protocol is up (connected)
  Hardware is C6k 1000Mb 802.3, address is 1234.5678.acf0 (bia 1234.5678.acf0)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 19/255, rxload 9/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 1000Mb/s, media type is LH
  input flow-control is off, output flow-control is off
  Clock mode is auto
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:24, output 00:00:32, output hang never
  Last clearing of "show interface" counters 18w4d
  Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 1
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 36635000 bits/sec, 30792 packets/sec
  5 minute output rate 75164000 bits/sec, 33229 packets/sec
  381293528598 packets input, 50631274870168 bytes, 0 no buffer
  Received 164927275 broadcasts (71285751 multicasts)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  461344193757 packets output, 78326994017321 bytes, 0 underruns
  0 output errors, 0 collisions, 0 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
```

Cisco\_6513-01#

Cisco\_6513-01#

Cisco\_6513-01#

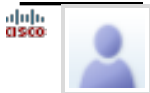
```
Cisco_6513-01#show int gig 1/2
GigabitEthernet1/2 is up, line protocol is up (connected)
Hardware is C6k 1000Mb 802.3, address is 1234.5678.acf1 (bia 1234.5678.acf1)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 7/255, rxload 9/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 1000Mb/s, media type is LH
input flow-control is off, output flow-control is off
Clock mode is auto
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:27, output 00:00:36, output hang never
Last clearing of "show interface" counters 18w4d
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 37252000 bits/sec, 29125 packets/sec
5 minute output rate 30744000 bits/sec, 30383 packets/sec
 327187221784 packets input, 50275217402001 bytes, 0 no buffer
  Received 569975840 broadcasts (60010920 multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
418724694610 packets output, 47401321074291 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
```

-Manny

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Average Rating: 0 (0 Votes)

**Rahul  
Kachalia**



75 posts since  
Sep 26, 2000

May 4, 2011 4:15 PM (in response to fibernet570)

**Re: Cisco understanding etherchannels**

Hi Manny,

You will not see even load-sharing between each member-links even load-sharing is done on per-flow basis instead per-packet basis.

EtherChannel load-sharing between each member-link is pre-compu supports wide range of L2 to L4 load-sharing input mechanics. More 1 better the load-sharing across each paths. So depending application: from global configuration mode to acheive best results.

There are some recommendation documented in design guide that y

[http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Bord/Borderless\\_Campus\\_1.0\\_Design\\_Guide.pdf](http://www.cisco.com/en/US/docs/solutions/Enterprise/Campus/Bord/Borderless_Campus_1.0_Design_Guide.pdf)

thanks,  
rahul.

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**Average Rating: 5 (1 Votes)**

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