

# IP Ping

IP Ping allows you to 'ping' up to 10 copies of QPC2 running the Ping Server, **PSERVE**, on a PC.

This may be the PC you are currently using, or one connected to the PC's network.

Ping will display the response string sent from the Ping Server on that copy of QPC2 running on that PC. This string can be almost anything you want, up to 128 characters.

The Ping Server uses the PC's network ports 53760 to 53769 (\$D200 - \$D209)

## Installing IP Ping

Just load the program into memory, and call it.

example: i. **LRESPR flp1\_Ping\_cde**  
ii. **x=RESPR(950)** {if you don't have Toolkit 2, or equivalent}  
**LBYTES flp1\_Ping\_cde,x**  
**CALL x**

An installation message, and a version number will be displayed in #0

## Requirements

IP Ping requires the IP Device Drives, and has been developed and tested in QPC2. It should work in the latest version of SMSQemulator, that supports the IP Device Drives. Qemulator may have problems with **PSERVE**, but I would expect **PING** to work.

## Using IP Ping

Before you use **PING** you need to have one or more Ping Servers running in QPC2.

You start the Ping Server with the **PSERVE** command, followed by the required response string.

e.g. **PSERVE "Hello There"**

To 'ping' a PC, enter the **PING** command followed by the IP Address of the computer you want to ping as a string.

e.g. **PING "192.168.0.6"**

A list of 10 responses will be displayed on channel #1, something like

**Hello There**

```
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
** No server found **
```

This shows that there is one Ping Server running on that PC. And it replied with the string 'Hello There'.

## PING

The **PING** command is used to send ten ping requests, to ten network ports on a PC. The results of the ten pings are displayed in channel #1 by default, but may be sent to any BASIC channel with the optional channel number.

Any of the ten ping requests that do not receive a response string from a Ping Server, will display **\*\* No server found \*\***.

syntax: *IP\_Address := string\_expression*

**PING**[#ch,] *IP\_Address*

example: i. **PING** "192.168.0.6"  
ii. **PING**#4, "192.168.0.6"

comment: If you use the IP Address of '127.0.0.1' You will ping the PC you are using.

## PSERVE

The **PSERVE** command is used to start a background job, that waits for Ping requests, and then sends the supplied string to the copy of QPC2 that sent the Ping request. The length of the supplied string is limited to 128 bytes, and can contain almost any characters. Character 26 (CTRL-Z) is used by **PING** to sense the end of the response. So the rest of the string will be lost.

syntax: **PSERVE** *string\_expression*

example: **PSERVE** "This is QPCII v4.05"

note: You can have a maximum of 10 ping servers running on a single PC. If you try to start more you will receive a 'value out of range' error.