

Re: Socket Connection

Source: <http://coding.derkeiler.com/Archive/Tcl/comp.lang.tcl/2004-06/0934.html>

From: David Gravereaux (*davygrvy_at_pobox.com*)

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amnon.friling@citicorp.com (Afri) wrote:

>Hi
>
>I am looking for a method to monitor the creation of a client socket
>connection. Meaning, a timeout mechanism which will terminate the
>socket command if the connection has not been established within a set
>up time.
>
>Thanks
>afri

First, use the `-async` option to connect. Second, setup an after event to close the socket. If the connect happens before the after event, cancel it. That's the basics. Note that if there is a DNS delay, the lookup is blocking and can't be canceled. It would look something like this; untested:

```
set host server.blablabla.com
set port 5252
set timeoutVal 15000 ;# 15 seconds
```

```
proc SockCancel {s} {
    close $s
    puts "Connection on $s canceled due to timeout"
}
```

```
proc SockWritable {s timeoutToken} {
    after cancel $timeoutToken
    if {[set err [fconfigure $s -error]] != ""} {
        puts "Got connection error for $s: $err"
        close $s
    }
    puts "Got connection for $s"
    fileevent $s writable {}
}
```

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```
set s [socket -async $host $port]
fconfigure $s -blocking 0
fileevent $s writable [list SockWritable $s [after $timeoutVal [list
SockCancel $s]]]
```

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David Gravereaux <davygrvy@pobox.com>

[species: human; planet: earth,milkyway(western spiral arm),alpha sector]