

例 5-1 type-o-serve——用于 HTTP 调试的最小型 Perl Web 服务器

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#!/usr/bin/perl

use Socket;
use Carp;
use FileHandle;

# (1) use port 8080 by default, unless overridden on command line
$port = (@ARGV ? $ARGV[0] : 8080);

# (2) create local TCP socket and set it to listen for connections
$proto = getprotobyname('tcp');
socket(S, PF_INET, SOCK_STREAM, $proto) || die;
setsockopt(S, SOL_SOCKET, SO_REUSEADDR, pack("l", 1)) || die;
bind(S, sockaddr_in($port, INADDR_ANY)) || die;
listen(S, SOMAXCONN) || die;

# (3) print a startup message
printf("    <<<Type-O-Serve Accepting on Port %d>>>\n\n", $port);

while (1)
{
    # (4) wait for a connection C
    $cport_caddr = accept(C, S);
    ($cport, $caddr) = sockaddr_in($cport_caddr);
    C->autoflush(1);

    # (5) print who the connection is from
    $cname = gethostbyaddr($caddr, AF_INET);
    printf("    <<<Request From '%s'>>>\n", $cname);

    # (6) read request msg until blank line, and print on screen
    while ($line = <C>)
    {
        print $line;
        if ($line =~ /\^\r/) { last; }
    }

    # (7) prompt for response message, and input response lines,
    #      sending response lines to client, until solitary "."
    printf("    <<<Type Response Followed by '.'>>>\n");

    while ($line = <STDIN>)
    {
        $line =~ s/\r//;
        $line =~ s/\n//;
        if ($line =~ /\^\./) { last; }
        print C $line . "\r\n";
    }
    close(C);
}
```

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