

[\[Browse source program\]](#) [\[Execute source program\]](#)

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-- Example for CGI programming in Curry:
-- A CGI program counting the number of visitors as a simple example
-- for updating information on the server by clients.
-- The update is forced to be an exclusive operation.
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import HTML
import System
import Directory
import IOExts(exclusiveIO)
import Read

visitorForm = do
  visitnum <- exclusiveIO (visitFile++".lock") incVisitNumber
  return $ form "Access Count Form"
    [h1 [htxt $ "You are the " ++ show visitnum ++ ". visitor!"]]

-- Increment the current visitor number and return the new number:
incVisitNumber :: IO Int
incVisitNumber = do
  existnumfile <- doesFileExist visitFile
  if existnumfile
    then do vfcont <- readFile visitFile
          writeVisitFile (readNat vfcont +1)
    else writeVisitFile 1

writeVisitFile n =
  do writeFile (visitFile++".new") (show n)
    system ("mv "++visitFile++".new "++visitFile)
    return n

-- the file where the current visitor number is stored:
visitFile = "numvisit"

-- Install the CGI program by:
-- makecurrycgi -m visitorForm exclusive
```