```
1    #!/bin/sh
2
3    scriptfile=`basename $0`
4    settingfile=$HOME/.popcheckrc
5
6    usage()
7    {
8      cat <<EOF
9    Usage: $scriptfile [-h] [-c] [-f setting file]
10   EOF
11   }
12
13   while getopts cf:h opt
14   do
15     case $opt in
16       c)
17         checkonly=on
18         ;;
19       f)
20         settingfile="$OPTARG"
21         ;;
22       h)
23         usage
24         exit 0
25         ;;
26     esac
27   done
28
29   #shift `expr $OPTIND - 1`
30   port=110
31   wait=0
32
33   if [ -f "$settingfile" ]
34   then
35     exec 3<&0 0<${settingfile}
36     while read line
37     do
38       case "$line" in
39         'popserver '*)
40           set -- $line
41           popserver=$2
42           ;;
43         'username '*)
44           set -- $line
45           username=$2
46           ;;
47         'password '*)
48           set -- $line
49           password=$2
50           ;;
51         'port '*)
52           set -- $line
53           port=$2
54           ;;
55         'wait '*)
56           set -- $line
57           wait=$2
58           ;;
59         apop|APOP|pop3|POP3)
60           apop=$line
61           ;;
62       esac
63     done
64     exec 0<&3 3<&-
65   else
66     echo "No setting file!" >&2
67     exit 1
68   fi
```

```
69
70   pipefile=/tmp/popcheck_pipe.${username}@${popserver}.$$
71   tempfile=/tmp/popcheck_temp.${username}@${popserver}.$$
72   trap "/bin/rm -f ${pipefile} ${tempfile}; exit 0" 0 1 2 13 15
73   mkfifo -m 600 ${pipefile}
74   mkfifo -m 600 ${tempfile}
75
76   {
77     exec 4<&0 0<${tempfile}
78     old=0
79     sleep $wait
80     case "$apop" in
81       apop|APOP)
82         while :
83         do
84           until read response
85           do
86             :
87           done
88           case "$response" in
89             [0-9a-f]*[0-9a-f])
90               break
91               ;;
92           esac
93           sleep 1
94         done
95         echo APOP ${username} ${response}
96         ;;
97       *)
98         echo USER ${username}
99         sleep $wait
100        echo PASS ${password}
101        ;;
102    esac
103    sleep $wait
104    echo STAT
105    while :
106    do
107      sleep $wait
108      while :
109      do
110        until read num
111        do
112          :
113        done
114        if [ x"$num" = xError -o x"$checkonly" = xon ]
115        then
116          break 2
117        elif [ $num -ne $old ]
118        then
119          break
120        fi
121        sleep 1
122      done
123      if [ $num -eq 0 ]
124      then
125        break
126      fi
127      echo TOP $num 0
128      old=$num
129    done
130    sleep $wait
131    echo QUIT
132    exec 0<&4 4<&-
133  } | telnet ${popserver} ${port} >${pipefile} 2>/dev/null &
134
135  {
136    exec 3<&0 0<${pipefile} 5>&1 1>${tempfile}
```

```
137      stage=0
138      num=1
139      while read line
140      do
141        case "$stage" in
142          0)
143            case "$line" in
144              '+OK '*)
145                stage=1
146                case "$apop" in
147                  apop|APOP)
148                    set -- $line
149                    shift `expr $# - 1`
150                    challenge=$1
151                    echo -n "${challenge}${password}" | md5sum
152                    ;;
153                esac
154                ;;
155            esac
156            ;;
157          1)
158            case "$line" in
159              '+OK '[0-9]*)
160                stage=2
161                echo $num
162                set -- $line
163                max=$2
164                case "$max" in
165                  '')
166                    echo Error
167                    ;;
168                esac
169                case "$checkonly" in
170                  on)
171                    break
172                    ;;
173                  '')
174                    subject=
175                    subjcont=0
176                    ;;
177                esac
178                ;;
179            esac
180            ;;
181          2)
182            case "$line" in
183              [A-Z]*)
184                subjcont=0
185                ;;
186            esac
187            if [ x"$subject" != x -a $subjcont -eq 1 ]
188            then
189              case "$line" in
190                *'=?'*)
191                  subjcheck=`echo "$line" | grep '^=?'`
192                  case "$subjcheck" in
193                    '')
194                      subject="$subject "`echo "$line" | nkf -mde`
195                      ;;
196                    *)
197                      subject="$subject"`echo "$line" | nkf -mde`
198                      ;;
199                  esac
200                  ;;
201                *)
202                  subject="$subject"`echo "$line"`
203                  ;;
204              esac
```

```
205          else
206            case "$line" in
207              '-ERR'*)
208                echo 0
209                ;;
210              'Subject: '*)
211                case "$line" in
212                  *'=?'*'?='*)
213                    subject=`echo "$line" | nkf -mde | cut -d " " -f 2-`
214                    ;;
215                  *)
216                    subject=`echo "$line" | cut -d " " -f 2-`
217                    ;;
218                esac
219                subjcont=1
220                ;;
221              .)
222                eval subject_$num='"$subject"'
223                if [ $num -ge $max ]
224                then
225                  num=0
226                else
227                  num=`expr $num + 1`
228                fi
229                subject=
230                echo $num
231                ;;
232            esac
233          fi
234          ;;
235        esac
236      done
237      exec 0<&3 3<&- 1>&5 5>&-
238  }
239
240  case "$max" in
241    '')
242      echo Error! Your account may be incorrect or used by other now. >&2
243      exit 1
244      ;;
245    0)
246      echo There is no email in your mailbox.
247      ;;
248    1)
249      echo There is an email in your mailbox.
250      ;;
251    *)
252      echo There are $max emails in your mailbox.
253      ;;
254  esac
255
256  while [ x"$checkonly" != xon -a $num -lt $max ]
257  do
258    num=`expr $num + 1`
259    i=`printf "%5d" $num`
260    eval echo \""["\$i"]" Subject: \$subject_$num\"
261  done
262
263  exit 0
```