#define \_POSIX\_SOURCE

#define \_POSIX\_C\_SOURCE 199309L

#include <iostream>

#include <unistd.h>

using namespace std;

int main() {

int choice = -1;

while (choice != 3) {

cout << "1] Runtime limits\n2] Compiletime limits\n3] Exit\n> ";

cin >> choice;

switch (choice) {

case 1: {

cout << "\* Run-time values\n";

int res;

if ((res = sysconf(\_SC\_CLK\_TCK)) == -1)

perror("sysconf");

else

cout << "No. of clock ticks: " << res << '\n';

if ((res = sysconf(\_SC\_CHILD\_MAX)) == -1)

perror("sysconf");

else

cout << "Max. no. of child processes: " << res << '\n';

if ((res = pathconf("/", \_PC\_NAME\_MAX)) == -1)

perror("pathconf");

else

cout << "Max. length in bytes in a file name: " << res << '\n';

if ((res = pathconf("/", \_PC\_PATH\_MAX)) == -1)

perror("pathconf");

else

cout << "Max. length in bytes of a path: " << res << '\n';

if ((res = sysconf(\_SC\_OPEN\_MAX)) == -1)

perror("sysconf");

else

cout << "Max. no. of open files: " << res << '\n';

break;

}

case 2: {

cout << "\* Compile-time values\n";

#ifdef \_POSIX\_CHILD\_MAX

cout << "Max. no. of child processes: " << \_POSIX\_CHILD\_MAX << '\n';

#else

cout << "\_POSIX\_CHILD\_MAX is not defined\n";

#endif

#ifdef \_POSIX\_OPEN\_MAX

cout << "Max. no. of files simultaneously opened: " << \_POSIX\_OPEN\_MAX << '\n';

#else

cout << "\_POSIX\_OPEN\_MAX is not defined\n";

#endif

#ifdef \_POSIX\_NAME\_MAX

cout << "Max. no. of characters in filename: " << \_POSIX\_NAME\_MAX << '\n';

#else

cout << "\_POSIX\_NAME\_MAX is not defined\n";

#endif

#ifdef \_POSIX\_PATH\_MAX

cout << "Max. no of chars in pathname: " << \_POSIX\_PATH\_MAX << '\n';

#else

cout << "\_POSIX\_PATH\_MAX is not defined\n";

#endif

#ifdef \_POSIX\_CLK\_TCK

cout << "No. of clock ticks: " << \_POSIX\_CLK\_TCK << '\n';

#else

cout << "\_POSIX\_CLK\_TCK is not defined\n";

#endif

break;

}

case 3: break;

default: cout << "Invalid choice!\n";;

}

}

return 0;

}