CLAIMS

1. A computer program product for facilitating processing in a computing environment, said computer program product comprising:

a computer readable storage medium readable by a processing circuit and storing instructions for execution by the processing circuit for performing a method comprising:

obtaining by a program an indication of a warning track facility installed within the computing environment, the warning track facility to provide to the program a warning track grace period to perform a function;

receiving by the program a warning track notification indicating the warning track grace period has begun; and

based on the warning track notification, at least initiating by the program the function within the warning track grace period.

2. The computer program product of claim 1, wherein the method further comprises registering by the program for the warning track facility.

3. The computer program product of claim 2, wherein based on the registering the program is enabled for the warning track facility.

4. The computer program product of claim 1, wherein the warning track notification comprises an interrupt in which shared resources assigned to the program are released subsequent to termination of the warning track grace period.

5. The computer program product of claim 1, wherein the function comprises one of:

completing a dispatchable unit executing on a processor in which the program executes; or

making the dispatchable unit re-dispatchable on another processor of the computing environment.

6. The computer program product of claim 1, wherein the program is a guest program having access to shared resources of the computing environment during a timeslice provided

to a guest central processing unit on which the guest program executes, and wherein the warning track grace period is distinguishable from the timeslice.

7. The computer program product of claim 6, wherein the warning track grace period prematurely terminates the timeslice.

8. The computer program product of claim 6, wherein the warning track grace period provides a period in addition to the timeslice to perform the function.

9. The computer program product of claim 1, wherein the method further comprises indicating by the program completion of the function during the warning track grace period.

10. The computer program product of claim 9, wherein the method further comprises receiving by the program, a next time the program executes, an indication that the function completed during the warning track grace period.

11. A computer system for facilitating processing in a computing environment, said computer system comprising:

a memory; and

a processor in communications with the memory, wherein the computer system is configured to perform a method, said method comprising:

obtaining by a program an indication of a warning track facility installed within the computing environment, the warning track facility to provide to the program a warning track grace period to perform a function;

receiving by the program a warning track notification indicating the warning track grace period has begun; and

based on the warning track notification, at least initiating by the program the function within the warning track grace period.

12. The computer system of claim 11, wherein the method further comprises registering by the program for the warning track facility.

13. The computer system of claim 12, wherein based on the registering the program is enabled for the warning track facility.

14. The computer system of claim 11, wherein the function comprises one of:

completing a dispatchable unit executing on a processor in which the program executes; or

making the dispatchable unit re-dispatchable on another processor of the computing environment.

15. The computer system of claim 11, wherein the program is a guest program having access to shared resources of the computing environment during a timeslice provided to a guest central processing unit on which the guest program executes, and wherein the warning track grace period is distinguishable from the timeslice.

16. The computer system of claim 15, wherein the warning track grace period prematurely terminates the timeslice.

17. The computer system of claim 15, wherein the warning track grace period provides a period in addition to the timeslice to perform the function.

18. A method of facilitating processing in a computing environment, said method comprising:

obtaining by a program an indication of a warning track facility installed within the computing environment, the warning track facility to provide to the program a warning track grace period to perform a function;

receiving by the program a warning track notification indicating the warning track grace period has begun; and

based on the warning track notification, at least initiating by the program the function within the warning track grace period.

19. The method of claim 18, wherein the function comprises one of:

completing a dispatchable unit executing on a processor in which the program executes; or

making the dispatchable unit re-dispatchable on another processor of the computing environment.

20. The method of claim 18, wherein the program is a guest program having access to shared resources of the computing environment during a timeslice provided to a guest central processing unit on which the guest program executes, and wherein the warning track grace period is distinguishable from the timeslice.

CLAIMS

1. A computer program product for facilitating processing in a computing environment, said computer program product comprising:

a non-transitory computer readable storage medium readable by a processing circuit and storing instructions for execution by the processing circuit for performing a method comprising:

obtaining by a program an indication of a warning track facility installed within the computing environment, the warning track facility to provide to the program a warning track grace period to perform a function;

initiating, by the program based on obtaining the indication that the warning track facility is installed, registration of the program for the warning track facility, the registration comprising an unsolicited registration request indicating that the program understands a protocol of the warning track facility and intends to participate in the warning track facility;

receiving by the program a warning track notification indicating the warning track grace period has begun; and

based on the warning track notification, at least initiating by the program the function within the warning track grace period.

2. The computer program product of claim 1, wherein based on the registration of the program, the program is enabled for the warning track facility.

3. The computer program product of claim 1, wherein the warning track notification comprises an interrupt in which shared resources assigned to the program are released subsequent to termination of the warning track grace period.

4. The computer program product of claim 1, wherein the function comprises one of:

completing a dispatchable unit executing on a processor in which the program executes; or

making the dispatchable unit re-dispatchable on another processor of the computing environment.

5. The computer program product of claim 1, wherein the program is a guest program having access to shared resources of the computing environment during a timeslice provided to a guest

central processing unit on which the guest program executes, and wherein the warning track grace period is distinguishable from the timeslice.

6. The computer program product of claim 5, wherein the warning track grace period prematurely terminates the timeslice.

7. The computer program product of claim 5, wherein the warning track grace period provides a period in addition to the timeslice to perform the function.

8. The computer program product of claim 1, wherein the method further comprises indicating by the program completion of the function during the warning track grace period.

9. The computer program product of claim 8, wherein the method further comprises receiving by the program, a next time the program executes, an indication that the function completed during the warning track grace period.

10. The computer program product of claim 1, wherein registration is performed via a Diagnose instruction, the Diagnose instruction comprising a register parameter to signal that the program understands a warning track interruption of the warning track facility.

11. The computer program product of claim 1, wherein the grace period is distinguishable from a timeslice provided to a processor on which the program executes, the program having access to shared resources of the computing environment during the timeslice, and wherein the grace period provides a period in addition to the timeslice, wherein any portion of the period used by the program to perform the function is charged against a next timeslice for the program.

12. The computer program product of claim 1, wherein the method further comprises:

obtaining by the program, a next time the program executes, based on determining the program voluntarily exited prior to expiration of the grace period, positive feedback indicating voluntarily exiting prior to expiration of the grace period; and

obtaining by the program, a next time the program executes, based on determining the program was tardy on voluntarily exiting prior to expiration of the grace period, an exception feedback indication indicating tardiness in voluntarily exiting.

13. A computer system for facilitating processing in a computing environment, said computer system comprising:

a memory; and

a processor in communications with the memory, wherein the computer system is configured to perform a method, said method comprising:

obtaining by a program an indication of a warning track facility installed within the computing environment, the warning track facility to provide to the program a warning track grace period to perform a function;

initiating, by the program based on obtaining the indication that the warning track facility is installed, registration of the program for the warning track facility, the registration comprising an unsolicited registration request indicating that the program understands a protocol of the warning track facility and intends to participate in the warning track facility;

receiving by the program a warning track notification indicating the warning track grace period has begun; and

based on the warning track notification, at least initiating by the program the function within the warning track grace period.

14. The computer system of claim 13, wherein the function comprises one of:

completing a dispatchable unit executing on a processor in which the program executes; or

making the dispatchable unit re-dispatchable on another processor of the computing environment.

15. The computer system of claim 13, wherein the program is a guest program having access to shared resources of the computing environment during a timeslice provided to a guest central processing unit on which the guest program executes, and wherein the warning track grace period is distinguishable from the timeslice.

16. The computer system of claim 15, wherein the warning track grace period prematurely terminates the timeslice.

17. The computer system of claim 15, wherein the warning track grace period provides a period in addition to the timeslice to perform the function.

18. The computer system of claim 13, wherein registration is performed via a Diagnose instruction, the Diagnose instruction comprising a register parameter to signal that the program understands a warning track interruption of the warning track facility.

19. The computer system of claim 13, wherein the grace period is distinguishable from a timeslice provided to a processor on which the program executes, the program having access to shared resources of the computing environment during the timeslice, and wherein the grace period provides a period in addition to the timeslice, wherein any portion of the period used by the program to perform the function is charged against a next timeslice for the program.

20. The computer system of claim 13, wherein the method further comprises:

obtaining by the program, a next time the program executes, based on determining the program voluntarily exited prior to expiration of the grace period, positive feedback indicating voluntarily exiting prior to expiration of the grace period; and

obtaining by the program, a next time the program executes, based on determining the program was tardy on voluntarily exiting prior to expiration of the grace period, an exception feedback indication indicating tardiness in voluntarily exiting.