

Solution to Problem

[0010]

According to a first aspect of the present invention, there is provided an information processing device comprising: a memory configured to store applications, application information corresponding to each of the applications, and state management information; a control circuitry configured to: refer to said application information stored in the state management information based on a designated priority level associated with the application information stored in the state management information; control a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command; cause a first application of the applications to enter a valid state by adding the application information corresponding to the first application to the state management information; and cause a second application of the applications stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.

[0011]

According to a second aspect of the present invention, there is provided an information processing method comprising: storing applications, application information corresponding to each of the applications, and state management information; referring to said application information stored in the state management information based on designated priority level associated with the application information stored in the state management information; controlling a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command; causing a first application of the applications to enter a valid state by adding the application information corresponding to the first application to the state management information; and causing a second application, stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.

[0012]

According to a third aspect of the present invention, there is provided a non-transitory storage medium configured to store a program for causing a computer to execute: storing applications, application information corresponding to each of the applications, and state management information; referring to said application information stored in the state management information based on designated priority level associated with the application information stored in the state management information; controlling a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command; causing a first application to enter a valid state by adding the application information corresponding to the first application to the state management information; and causing a second application stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.

Advantageous Effects of Invention

[0015]

According to embodiments of the present invention, it is possible to control an installed application such that a valid state and an invalid state of the application are controlled.

Brief Description of Drawings

[0016]

[FIG. 1A] FIG. 1A is an explanatory diagram illustrating a process related to an information processing method in an information processing device according to an embodiment.

[FIG. 1B] FIG. 1B is an explanatory diagram illustrating a process related to an information processing method in an information processing device according to an embodiment.

CLAIMS:

1. An information processing device comprising:
 - a memory configured to store applications, application information corresponding to each of the applications, and state management information;
 - a control circuitry configured to:
 - refer to said application information stored in the state management information based on a designated priority level associated with the application information stored in the state management information;
 - control a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command;
 - cause a first application of the applications to enter a valid state by adding the application information corresponding to the first application to the state management information; and
 - cause a second application of the applications stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.
2. The information processing device of claim 1,
 - wherein the application information includes system information used to identify a system in which a given application is used, and
 - wherein, when the system information included in the application information and corresponding to an application newly set in the valid state is included in the application information already stored in the state management information, the control circuitry does not add the application information corresponding to the application newly set in the valid state to the state management information.
3. The information processing device according to claim 1, wherein the control circuitry is configured to control the priority level associated with the application information stored in the state management information through deletion of the application information from the state management information and addition of the application information to the state management information.
4. The information processing device according to claim 1, wherein the control circuitry is configured to

manage the applications in a first layer, and
manage the application information corresponding to each of the applications and
the state management information in a second layer which is lower than the first layer.

5. The information processing device according to claim 4, wherein the control circuitry is configured to

provide a third layer which is lower than the second layer, and
manage, in the third layer, the state management information copied from the state
management information managed in the second layer.

6. The information processing device according to claim 5,
wherein the application information includes mode information regulating whether a
response to a polling signal is given, and

wherein, when the control circuitry updates the mode information included in the state
management information, the control circuitry updates the mode information included in the
state management information managed in the third layer and does not update the mode
information included in the state management information managed in the second layer.

7. The information processing device according to claim 6,
wherein the memory includes a volatile recording medium and a non-volatile recording
medium,

wherein the mode information forming the application information included in the state
management information is stored in the volatile recording medium, and

wherein, among information forming the application information included in the state
management information, information excluding the mode information is stored in the non-
volatile recording medium.

8. An information processing method comprising:

storing applications, application information corresponding to each of the applications,
and state management information;

referring to said application information stored in the state management information
based on designated priority level associated with the application information stored in the state
management information;

controlling a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command;

causing a first application of the applications to enter a valid state by adding the application information corresponding to the first application to the state management information; and

causing a second application, stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.

9. The information processing method of claim 8,

wherein the application information includes system information used to identify a system in which a given application is used, and

wherein, when the system information included in the application information and corresponding to an application newly set in the valid state is included in the application information already stored in the state management information, the application information corresponding to the application newly set in the valid state is not added to the state management information.

10. The information processing method according to claim 8, further comprising:

controlling the priority level associated with the application information stored in the state management information through deletion of the application information from the state management information and addition of the application information to the state management information.

11. The information processing method according to claim 8, further comprising:

managing the applications in a first layer, and

managing the application information corresponding to each of the applications and the state management information in a second layer which is lower than the first layer.

12. The information processing method according to claim 11, further comprising:

managing, in a third layer lower than the second layer, the state management information copied from the state management information managed in the second layer.

13. The information processing method according to claim 12, wherein the application information includes mode information regulating whether a response to a polling signal is given, and

the method further comprising:

when the mode information included in the state management information is updated, updating the mode information included in the state management information managed in the third layer and not updating the mode information included in the state management information managed in the second layer.

14. The information processing method according to claim 13,

wherein the storing is to a volatile recording medium and a non-volatile recording medium,

wherein the mode information forming the application information included in the state management information is stored in the volatile recording medium, and

wherein, among information forming the application information included in the state management information, information excluding the mode information is stored in the non-volatile recording medium.

15. A non-transitory storage medium configured to store a program for causing a computer to execute:

storing applications, application information corresponding to each of the applications, and state management information;

referring to said application information stored in the state management information based on designated priority level associated with the application information stored in the state management information;

controlling a valid state and an invalid state of the applications by managing the application information stored in the state management information based on a process command;

causing a first application to enter a valid state by adding the application information corresponding to the first application to the state management information; and

causing a second application stored in the state management information to enter an invalid state by deleting the application information corresponding to the second application from the state management information.