migrates a selected whole agent process residing on a first base specified with a first base instance to a second base specified with a second base instance, including migration of all object instances and task instances on the first base within the selected whole agent process.

52. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 44, further comprising the steps of:

    instantiating a first base according to the base class;
    instantiating a second agent process according to the agent class, the second agent process residing at least in part on the first base;
    instantiating an anchored object from a base-dependent object class, the anchored object being associated with a second agent process located on a first base specified with a base instance and being unable to be moved to other bases;
    defining an agent migrate method in the agent class that migrates the second agent process to another base specified with a base instance, including migration of all task instances and object instances within the second agent process except for the anchored object.

53. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 44, further comprising the steps of:

    instantiating a first base according to the base class;
    instantiating a second agent process according to the agent class, the second agent process residing at least in part on the first base;
    instantiating a first object according to the object class, the first object residing within the second agent process;
    pinning the first object to the first base; and
    defining an agent migrate method in the agent class that migrates the second agent process from the first base to another base specified with the base class, including migration of all task instances and object instances within the second agent process except for the pinned first object.

54. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 44, further comprising the steps of:

    instantiating a first base and a second base according to the base class;
    instantiating a task according to the task class on the first base;
    instantiating an object according to the object class on the second base, the object having a method; and
    defining a method calling protocol wherein calling, from the task on the first base, the method of the object on the second base includes transmitting the method from the first base to the second base and executing the method on the second base.

55. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 44, further comprising the steps of:

    instantiating a first base and a second base according to the base class;
    instantiating a task according to the task class on the first base;
    instantiating an object according to the object class on the second base, the object having a method; and
    defining a method calling protocol wherein calling, from the task on the first base, the method of the object on the second base includes executing the method on the first base using method code on the first base corresponding to the method of the object and a remote reference to the object on the second base.

56. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 55, wherein the method code on the first base corresponding to the method of the object is stored in a class file on the first base.

57. The method for implementing a network-centric computer software programming system for a network of computer machines according to claim 44, wherein at least a subset of the plurality of computer machines are heterogeneous.