

CLAIMS

1. ~~A system, comprising:~~

~~a first liquid immersion tank containing multiple components of a first computing resource component type and no components of a second computing resource component type, the first liquid immersion tank comprising a first liquid having a boiling point within an operating temperature range of the first computing resource component type;~~

~~a second liquid immersion tank containing multiple components of the second computing resource component type and no components of the first computing resource component type, the second liquid immersion tank comprising a second liquid having a boiling point within an operating temperature range of the second computing resource component type; and,~~

~~a communication hub communicatively coupled to the multiple components of the first computing resource component type in the first liquid immersion tank and the multiple components of the second computing resource component type in the second liquid immersion tank.~~

2. ~~The system of claim 1, wherein the first computing resource component type comprises central processing units and the second computing resource component type comprises memory.~~

~~3. The system of claim 2, further comprising a third liquid immersion tank containing multiple components of a third computing resource component type comprising graphical processing units and further comprising a fourth liquid immersion tank containing multiple components of a fourth computing resource component type comprising storage.~~

~~4. The system of claim 3, further comprising a fifth liquid immersion tank containing multiple components of a fifth computing resource component type comprising accelerators and further comprising a sixth liquid immersion tank containing multiple components of a sixth computing resource component type comprising flash memory.~~

~~5. The system of claim 4, further comprising a seventh liquid immersion tank containing multiple components of a seventh computing resource component type comprising overclocked processors.~~

~~6. The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are positioned radially around the communication hub.~~

7. ~~The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are positioned substantially equal distances from the communication hub.~~

8. ~~The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are all contained within a four cubic foot volume.~~

9. ~~The system of claim 1, further comprising first communication lines extending between the communication hub and the multiple components of the first computing resource component type in the first liquid immersion tank, and wherein the first communication lines are less than 1 foot in length and further comprising second communication lines extending between the communication hub and the multiple components of the second computing resource component type in the second liquid immersion tank, and wherein the second communication lines are less than 1 foot in length.~~

~~10. The system of claim 1, wherein the communication hub is positioned in another liquid immersion tank that is centrally positioned between the first liquid immersion tank and the second liquid immersion tank.~~

~~11. A device implemented method, comprising:~~

~~monitoring a first two-phase liquid immersion tank containing multiple components of a first computing resource component type and a second two-phase liquid immersion tank containing multiple components of a second computing resource component type;~~

~~receiving a first virtual machine request and a second virtual machine request; and,~~

~~dynamically allocating a first set of components from the first two-phase liquid immersion tank and a first set of components from the second two-phase liquid immersion tank to the first virtual machine request and a second set of components from the first two-phase liquid immersion tank and a second set of components from the second two-phase liquid immersion tank to the second virtual machine request.~~

~~12. The method of claim 11, wherein the dynamically allocating comprises replacing defective individual components in the first two-phase liquid immersion tank without changing allocations in the second two-phase liquid immersion tank.~~

~~13. The method of claim 11, wherein the dynamically allocating comprises managing individual components in the first two-phase liquid immersion tank in relation to multiple parameters.~~

~~14. The method of claim 13, further comprising sensing at least some of the multiple parameters from the first two-phase liquid immersion tank.~~

~~15. The method of claim 13, wherein the managing comprises driving the individual components at a rate that is faster than design specifications for the individual components.~~

1. A system, comprising:

a first liquid immersion tank containing multiple components of a first computing resource component type and no components of a second computing resource component type, the first liquid immersion tank comprising a first liquid having a boiling point within an operating temperature range of the first computing resource component type;

a second liquid immersion tank containing multiple components of the second computing resource component type and no components of the first computing resource component type, the second liquid immersion tank comprising a second liquid having a boiling point within an operating temperature range of the second computing resource component type; and,

a communication hub communicatively coupled to the multiple components of the first computing resource component type in the first liquid

immersion tank and the multiple components of the second computing resource component type in the second liquid immersion tank.

2. The system of claim 1, wherein the first computing resource component type comprises central processing units and the second computing resource component type comprises memory.

3. The system of claim 2, further comprising a third liquid immersion tank containing multiple components of a third computing resource component type comprising graphical processing units and further comprising a fourth liquid immersion tank containing multiple components of a fourth computing resource component type comprising storage.

4. The system of claim 3, further comprising a fifth liquid immersion tank containing multiple components of a fifth computing resource component type comprising accelerators and further comprising a sixth liquid immersion tank containing multiple components of a sixth computing resource component type comprising flash memory.

5. The system of claim 4, further comprising a seventh liquid immersion tank containing multiple components of a seventh computing resource component type comprising overclocked processors.

6. The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are positioned radially around the communication hub.

7. The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are positioned substantially equal distances from the communication hub.

8. The system of claim 5, wherein the first liquid immersion tank, the second liquid immersion tank, the third liquid immersion tank, the fourth liquid immersion tank, the fifth liquid immersion tank, the sixth liquid immersion tank, and the seventh liquid immersion tank are all contained within a four cubic foot volume.

9. The system of claim 1, further comprising first communication lines extending between the communication hub and the multiple components of the first computing resource component type in the first liquid immersion tank, and wherein the first communication lines are less than 1 foot in length and further comprising second communication lines extending between the communication hub and the multiple components of the second computing resource component type in the second liquid immersion tank, and wherein the second communication lines are less than 1 foot in length.

10. The system of claim 1, wherein the communication hub is positioned in another liquid immersion tank that is centrally positioned between the first liquid immersion tank and the second liquid immersion tank.