

BLUE BRAIN

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The most valuable creation of God, is nothing but Human Brain. The man is called intelligent because of the brain. But we lose the knowledge of a brain when the body is destroyed after the death. "BLUE BRAIN" is the name of the world's first virtual brain. That means a machine that can function as human brain. No one has ever understood the complexity of human brain. It is complex than any circuitry in the world. So, question may arise "Is it really possible to create a human brain?" The answer is "Yes". Because whatever man has created today always he has followed the nature. When man does not have a device called computer, it was a big question for all. But today it is possible due to the technology. Technology is growing faster than everything. IBM is now in research to create a virtual brain. It is called "**Blue brain**". If possible, this would be the first virtual brain of the world. Within 30 years, we will be able to scan ourselves into the computers. Now just see WHAT IS BLUE BRAIN?

Basic concept of BLUE BRAIN:

Blue Brain is the name of the world's first **virtual brain**. It means a machine that can function as human brain. Virtual brain means an artificial brain. Today scientists are in research to create an artificial brain that can think, respond, take decision, and keep anything in memory. The main aim of Blue brain is to upload human brain into machine. So that man can think, take decision without any effort.

Why it came into picture because, after the death of the body, the virtual brain will act as the man. So, even after the death of a person we will not lose the knowledge, intelligence, personalities, feelings and memories of that man that can be used for the development of the human society. Brain is an artificial brain, which does not actually the natural brain, but can act as the brain. It can think like brain, take decisions based on the past experience, and respond as the natural brain can. It is possible by using a super computer, with a huge amount of storage capacity, processing power and an interface between the human brain and this artificial one. Through this interface the data stored in the natural brain can be uploaded into the computer.

FUNCTION OF NATURAL BRAIN:

Sensory Input: - Receiving input such as sound, image, etc through sensory cell. Interpretation:- Interpretation of the received input by the brain by defining states of neurons in the brain. Motor Output:- Receiving of electric responses from the brain to perform any action.

Brain simulation once the neural microcircuit is built, the exciting work of making the circuit function can begin. All the 8192 processors of the Blue Gene(A super computer) are pressed into service that govern the electrical activity in each neuron when a stimulus is applied. As the electrical impulse travels from neuron to neuron, the results are communicated via inter-processor communication.

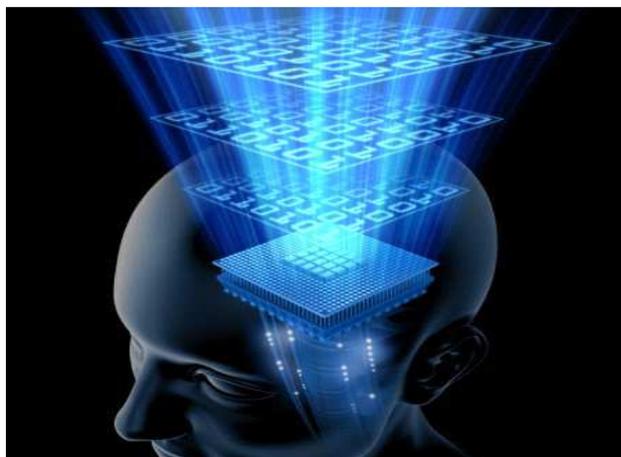
How it is possible?

The most promising is the use of very small robots, or nanobots. These robots will be small enough to travel throughout our circulatory systems. Traveling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system. They will be able to provide an interface with computers that is as close as our mind can be while we still reside in our biological form.

Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connections between each neuron. They would also record the current state of the brain. This information, when entered into a computer, could then continue to function as us. All that is required is a computer with large enough storage space and processing power. Is the pattern and state of neuron connections in our brain truly all that makes up our conscious selves? Many people believe firmly that we possess a soul, while some very technical people believe that quantum forces contribute to our awareness. But we have to now think technically. Note, however, that we need not know how the brain actually functions, to transfer it to a computer. We need only know the media and contents. The actual mystery of how we achieved consciousness in the first place, or how we maintain it, is a separate discussion.

Now there is no question how the virtual brain will work but the question is how human brain will be uploaded into it this is also possible due to the fast growing technology.

Uploading a human brain:



The uploading is possible by the use of small robots known as the Nanobots. These robots are small enough to travel throughout our circulatory system. Traveling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system. They will be able to provide an interface with computers that is as close as our mind can be while we still reside in our biological form. Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connections. This information, when entered into a computer, could then continue to function as us. Thus the data stored in the entire brain will be uploaded into the computer.

Blue brain objectives:

The project will search for insights into how human beings think and remember. The brain circuitry is in a complex state of flux, the brain rewiring itself every moment of its existence .if the scientists can crack open the secret of how and why the brain does it,the knowledge could lead to new breed of super computers. Now research is going on....The ultimate goal of the Blue Brain project is to reverse engineer the mammalian brian.

Advantages &Disadvantages:

All over the world there is no technology which having only advantages....some advantages & disadvantages as follows...

Advantages are Remembering things without any effort. Making decision without the presence of a person. Using intelligence of a person after the death. Understanding the activities of animals. Allowing the deaf to hear via direct nerve stimulation. A another situation is that when a person gets older ,then he starts forgetting or takes a bit more time to recognize to a person For above reason we need a blue brain,it is a simple chip that can be installed into the human brain for which the short term memory and the volatile memory at the old age can be avoided.

Disadvantages are we become dependent upon the computer. Others may use technical knowledge against us. Another fear is found with respect to human cloning. And also we required Super computer Memory with a very large storing capacity Processor with a very high processing power. A very wide network. very powerful Nano robots to act as the interface between the natural brain and the computer

Conclusion:

It requires further time for technology to increase. We will be able to transfer ourselves into computers at some point. It will bring both benefits and harm to human society. Very soon this technology will be highly accepted by all over the world.

First, it is the basic manners in which a person may be uploaded into a computer. The some very technical people believe that quantum forces contribute to our awareness. But we have to now think technically. Note, however, that we need not know how the brain actually functions, to transfer it to a computer. We need only know the media and contents. The actual mystery of how we achieved consciousness in the first place, or how we maintain it, is a separate discussion.