

# Hardware Neural Network

---

*Source:* <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2007-02/msg01266.html>

---

- *From:* "Daniele" <[daniele.dileo@xxxxxxxxx](mailto:daniele.dileo@xxxxxxxxx)>
  - *Date:* 28 Feb 2007 01:17:57 -0800
- 

Hi all,

I'm a university student, and I'm realizing a research on artificial neural networks. The aim of my research is the feasibility of putting an artificial neural network on a microcontroller or a DSP. Because of the sigmoid function, I think that would be necessary a 32-bit microcontroller (or DSP) for floating point operations. I was searching online but I only had found exhaustive informations on software realization of ANN's, but it's not what I was searching for. Does someone have any hint or any previous experience on the hardware realization of an ANN?

I think the better solution is the DSP, due to its power on floating points operation, is it right?

Here are some details of the network:

5 or 6 inputs  
about 10 neurons in the hidden layer  
2 outputs

Thanks in advance,

Daniele.

.