Primitive	Type	Purpose
NN_Get	Register	Extract next item from next neighbor ring
NN_Put	Register	Insert item in a next neighbor ring
NN_FULL	Signal	Test whether a next neighbor ring is full
NN_EMPTY	Signal	Test whether a next neighbor ring is empty

Figure 19.9 The hardware registers and signals used to access a ring of next neighbor registers. A microengine must test status before attempting to insert or extract an item.