## Jal: I-type instruction (opcode = 000011)

This instruction performs a normal jump but we need to save the return address (pc + 4) during the jump .

The return address (pc + 4) is saved in the register  $rac{$ra}$  (31).

We added a signal called link to perform this instruction.

We added two muxes (controlled by the signal link):

- -First mux to put (pc + 4) in the the result signal.
- -second mux to make \$ra the destination register (write result in \$ra).

