*file: hc11type.vhd*

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-- Motorola HC11 VHDL model

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-- hc11type.vhd : This file defines a package that defines common types used

-- by the HC11 VHDL model.

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-- 5/25/95 : Created - Scott Thibault

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package types is

subtype byte is bit\_vector (7 downto 0);

subtype word is bit\_vector (15 downto 0);

type byte\_array is array (natural range <>) of byte;

function resolve\_byte(drivers : byte\_array) return byte;

subtype databus is resolve\_byte byte;

function resolve\_pin(drivers : bit\_vector) return bit;

subtype pin is resolve\_pin bit;

type pin\_vector is array (natural range <>) of pin;

end types;

package body types is

function resolve\_pin (drivers: bit\_vector) return bit is

variable resolved : bit :='0';

begin

for i in drivers'range loop

resolved:=resolved or drivers(i);

end loop;

return resolved;

end;

function resolve\_byte (drivers: byte\_array) return byte is

variable resolved : byte:=(others=>'0');

begin

for i in drivers'range loop

resolved:=resolved or drivers(i);

end loop;

return resolved;

end;

end types;

*type b to return to text*