

In B.8.20 (field assignments) syntax:

<value assignment> ::= <value keyword> <left paren> <assignment> <right paren>
<value keyword> ::= **CAPTURES** | **DEFAULT** | **SAFE** | **RESETVAL** | <user value keyword>

...

<type assignment> ::= **NOPI** | **NOPO** | **NOUPD** | **MON** | **PULSE0** | **PULSE1** | **DELAYPO** |
NORETAIN | **SHARED** | <user type keyword>

In B.8.24 (BSDL extensions) syntax, rules, and description:

<register keyword extensions> ::= **attribute REGISTER_KEYWORD_EXTENSION of** <target>
is <quote> <register keyword string> <quote> <semicolon>

<register keyword string> ::= [<user value declaration>] [<user type declaration>]

<user value declaration> ::= **VALUE_KEYWORD** <left paren> <user value keyword>
{ <user value keyword> } <right paren>

<user value keyword> ::= <VHDL Identifier>

<user type declaration> ::= **TYPE_KEYWORD** <left paren> <user type keyword>
{ <user type keyword> } <right paren>

<user type keyword> ::= <VHDL Identifier>

...

- a) A <register keyword extensions>, if required, shall appear before any <register fields description>.
- b) Any <VHDL identifier> appearing as a value of a <user value keyword> or <user type keyword> in a <value assignment> or <type assignment>, respectively, shall appear in a <user value declaration> or <user type declaration>, respectively.
- c) Each <user value keyword> and <user type keyword> shall be unique within the BSDL and all used Packages.

...

The <register keyword extensions> may appear in the BSDL description or in a user-supplied BSDL package body, so long as it appears before the **REGISTER_FIELDS** or **REGISTER_ASSEMBLY** attributes where the defined keywords are used.