ruleset.dtd

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<!-- Root element -->
<!ELEMENT RULE SET (CPU, TABLE*, TOKEN*, RULE+)>
<!-- CPU construction -->
<!ELEMENT CPU (REGISTER+)>
<!ELEMENT REGISTER (INDEX+)>
<!ELEMENT INDEX (EMPTY)>
<!ATTLIST REGISTER size CDATA #REQUIRED>
<!-- 'size' - It is implied that the size will be set to the value of REGISTER if not given
-->
<!-- 'bit' - Is the offset from the beginning of the register. If not given value is set to
zero -->
<!ATTLIST INDEX
       name CDATA #REQUIRED
       size CDATA #IMPLIED
       bit CDATA #IMPLIED>
<!-- Generic lookup table -->
<!ELEMENT TABLE (FUNCTION, KEY+)>
<!ATTLIST TABLE name CDATA #REQUIRED>
<!ELEMENT FUNCTION (ARGUMENT+)>
<!ELEMENT FUNCTION name CDATA #REQUIRED>
<!ELEMENT ARGUMENT (EMPTY)>
<!ATTLIST ARGUMENT name CDATA #REOUIRED>
<!ELEMENT KEY (VALUE)>
<!ATTLIST KEY name CDATA #REQUIRED>
<!ELEMENT VALUE (KEY TARGET+)>
<!ATTLIST VALUE val CDATA #REQUIRED>
<!ELEMENT TARGET (EMPTY)>
<!ATTLIST TARGET name CDATA #REQUIRED>
<!-- Token - user defined keyword for grammar -->
<!ELEMENT TOKEN (BINARY DATA)>
<!ATTLIST TOKEN name CDATA #REQUIRED>
<!-- Data for a token - represents a need to parse N number of bits -->
<!ELEMENT BINARY_DATA (BINARY_ITEM+)>
<!ATTLIST BINARY_DATA size CDATA #REQUIRED>
<!-- ITEM -->
<!ELEMENT BINARY_ITEM (EMPTY)>
<!ATTLIST name CDATA #REQUIRED
       shift CDATA #IMPLIED
       mask CDATA #REQUIRED>
<!-- Rule -->
<!ELEMENT RULE (GRAMMAR, OUTPUT?)>
<!ATTLIST RULE name CDATA #REQUIRED>
<!-- What to look for in the input for this rule -->
<!ELEMENT GRAMMAR (EMPTY)>
<!-- What to do once the target input is found -->
<!ELEMENT OUTPUT (EMPTY)>
```