

The MIG specification language v2.7

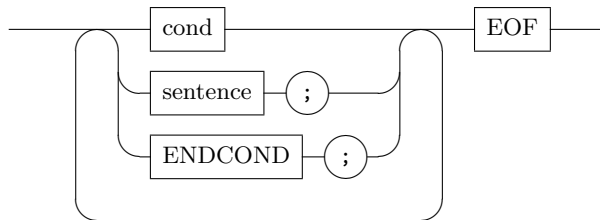
(*Modal Influence Graphs*)

René Vestergaard
 renevestergaard@acm.org

Top-level concerns

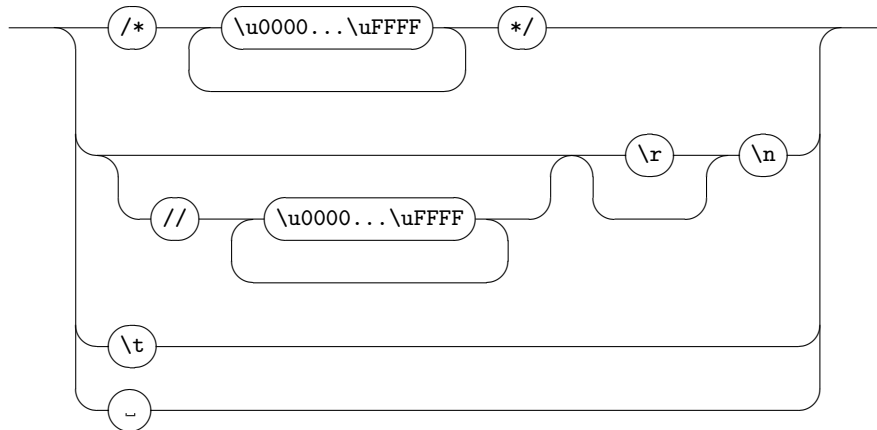
MIG includes the ability to have syntax parsed **CONDitionally**, to **ENDCOND**.

mig



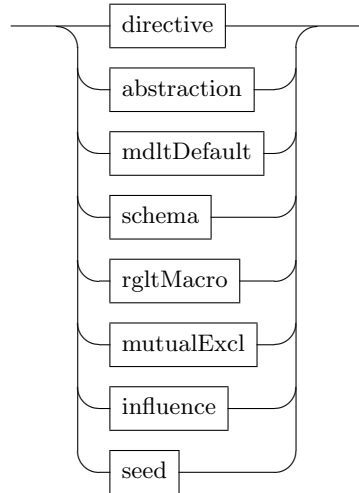
Any sequence of characters matching the following is **IGNOREd** — `\r` is **CARRIAGE-RETURN**, `\n` is **NEWLINE**, `\t` is **TAB**, `_` is **SPACE**, and `\u0000... \uFFFF` is any character.

IGNORE



MIG admits a range of types of sentences. Entities in circles are literals: they must be written as listed. Entities in boxes are composed, as dictated by their definition. Those in all capitals are the words of the language, see Appendix A.

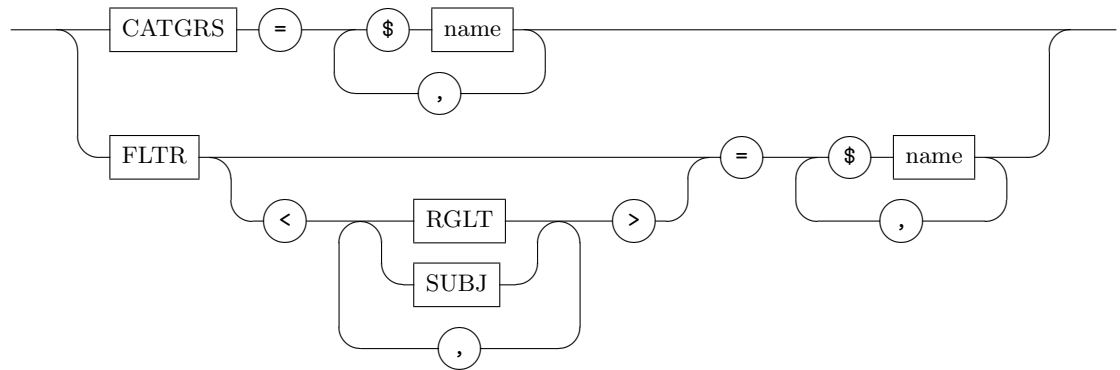
sentence



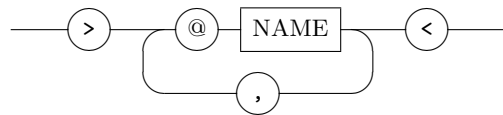
Anything modality related, i.e., anything starting with “mdl”, is listed in Appendix 2.

1 Sentences (alphabetically)

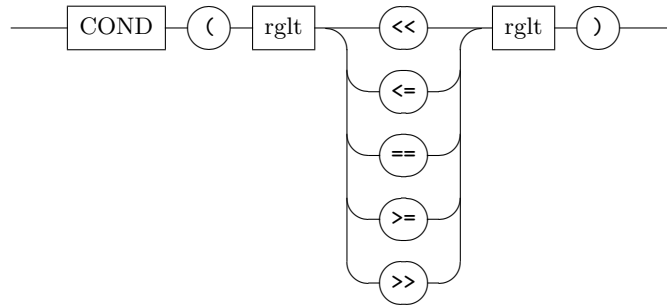
abstraction



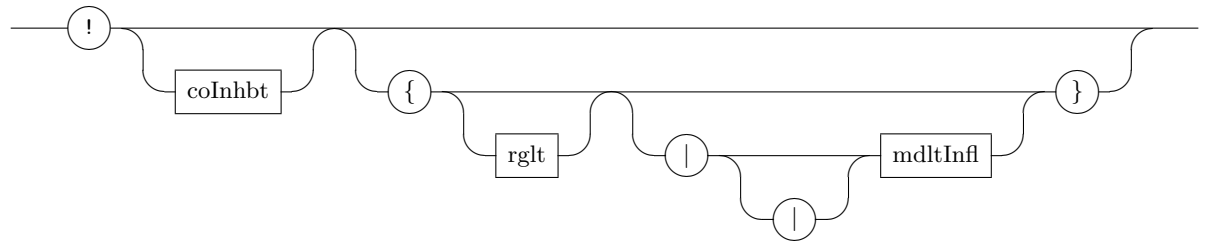
coInhbt



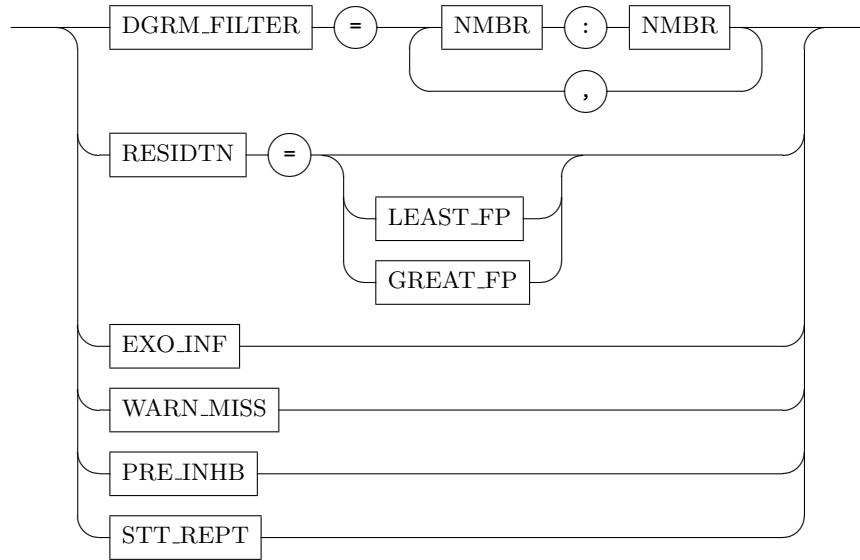
cond



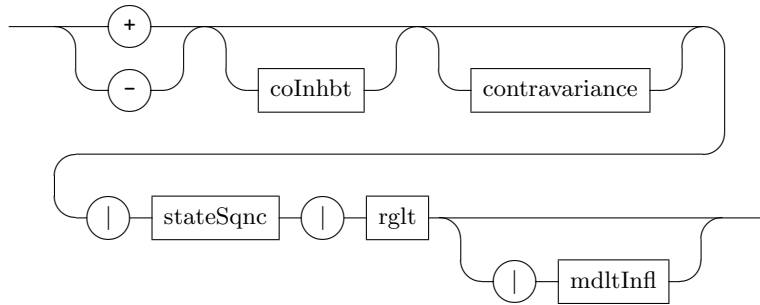
contravariance



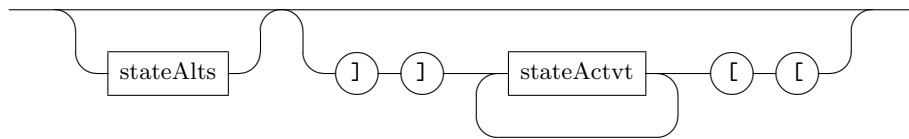
directive



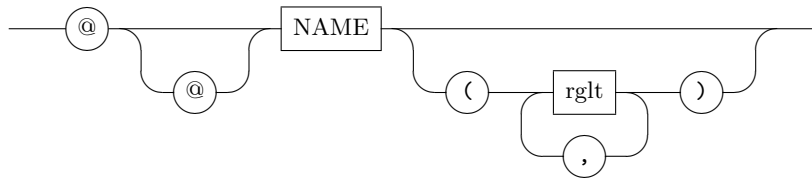
influence



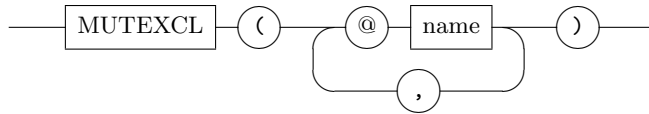
instance



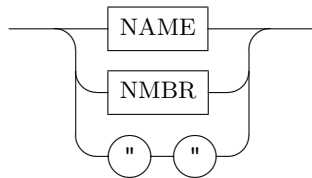
macroExp



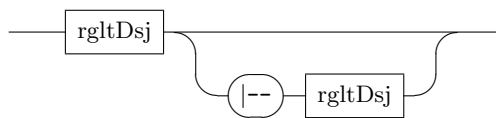
mutualExcl



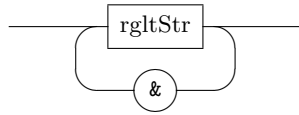
name



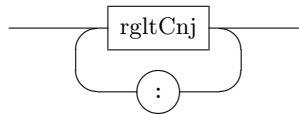
rglt



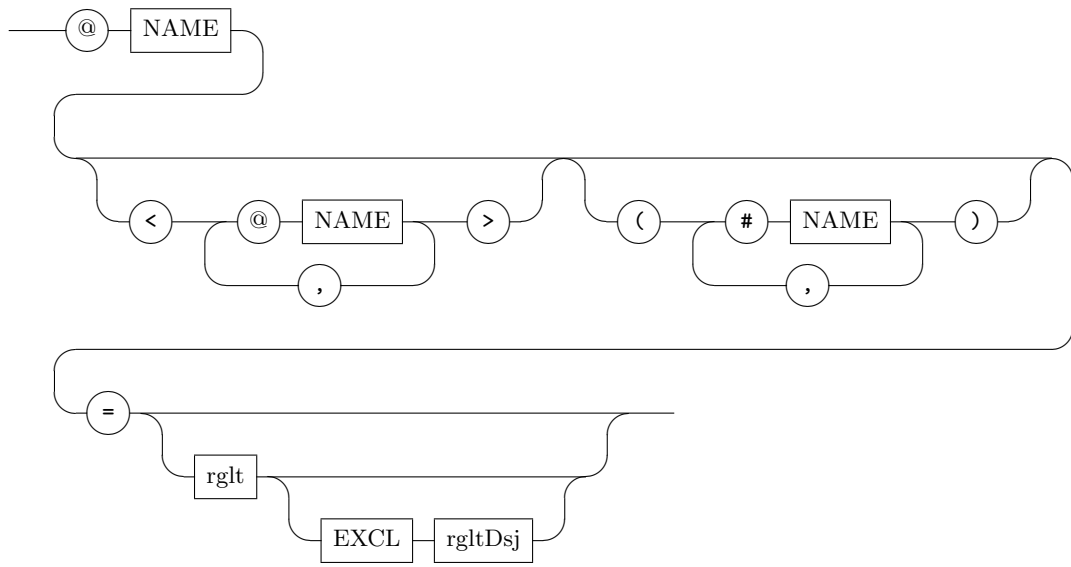
rgltCnj



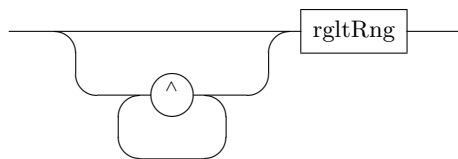
rgltDsj



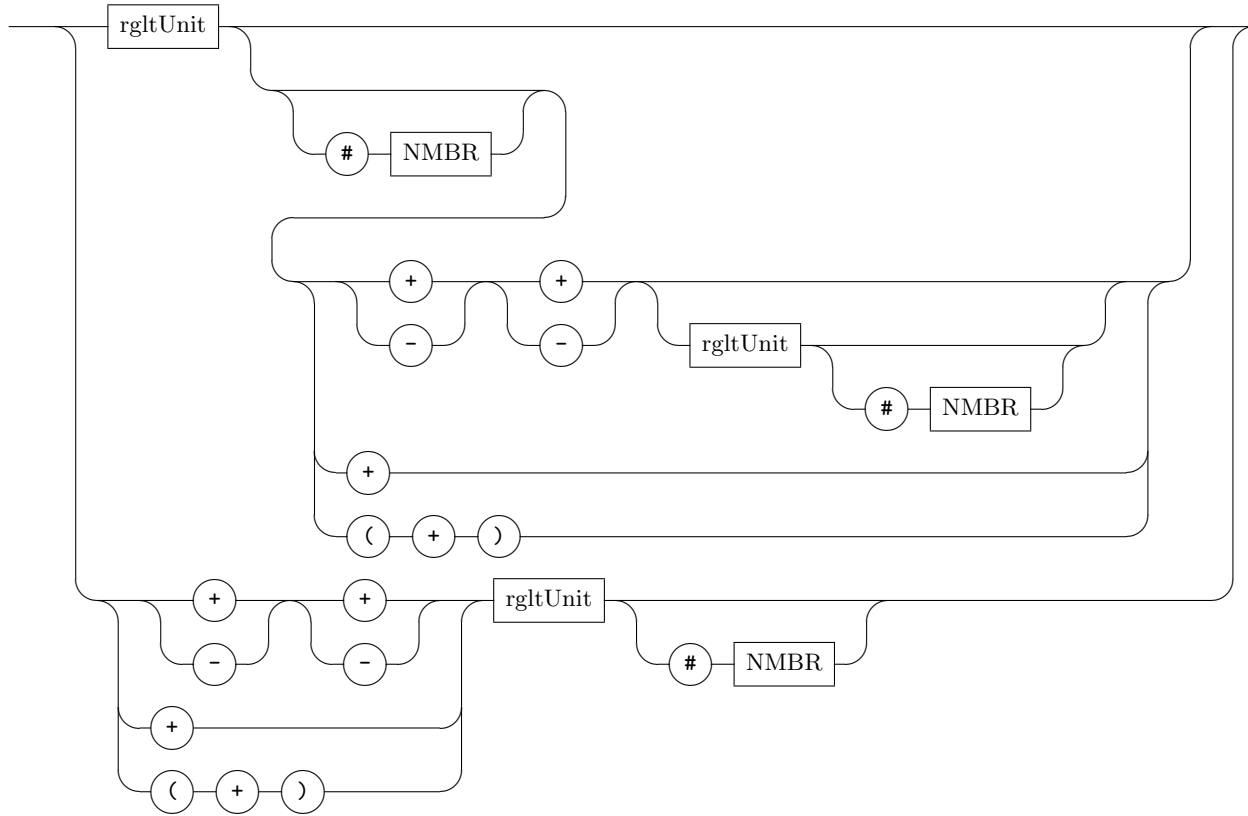
rgltMacro



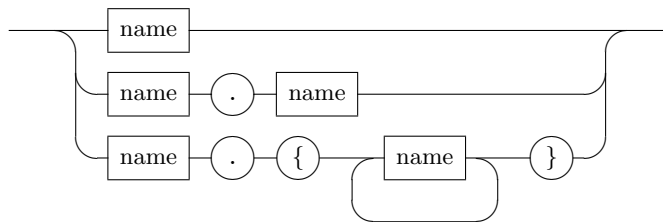
rgltOrdr



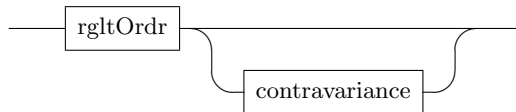
rgltRng



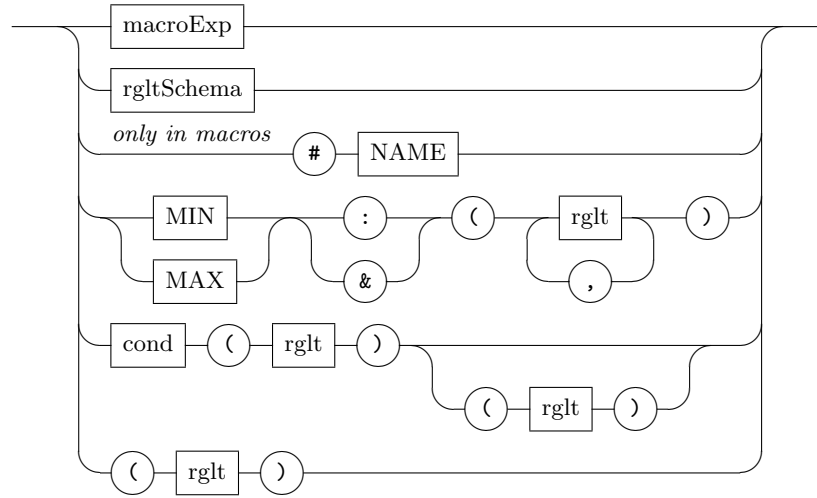
rgltSchema



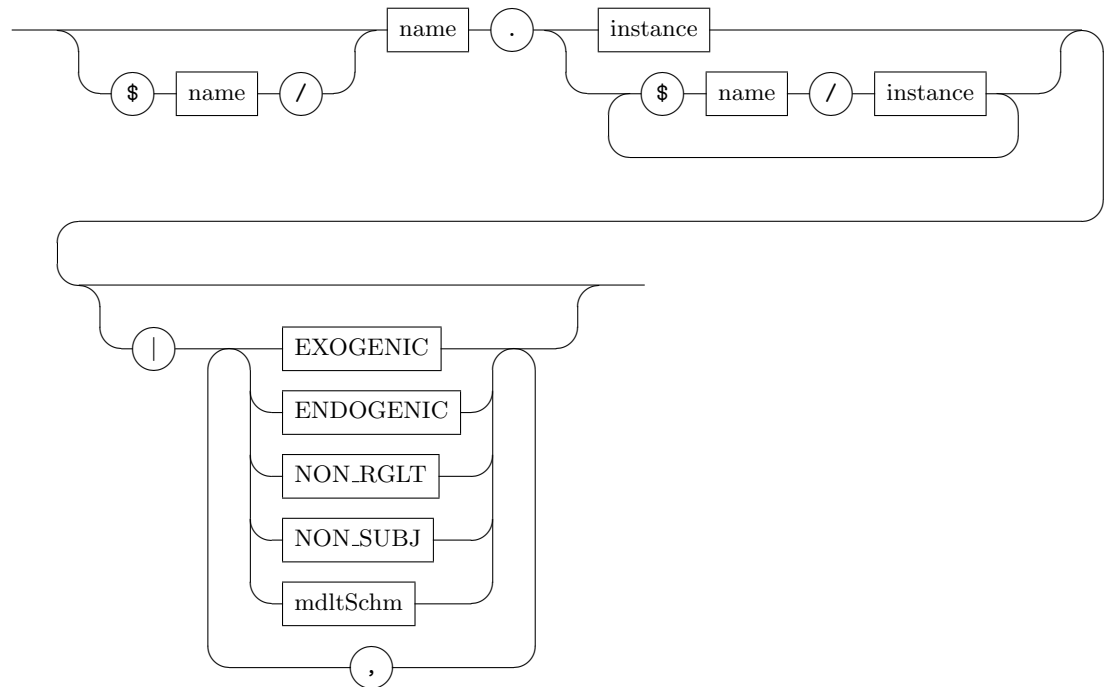
rgltStr



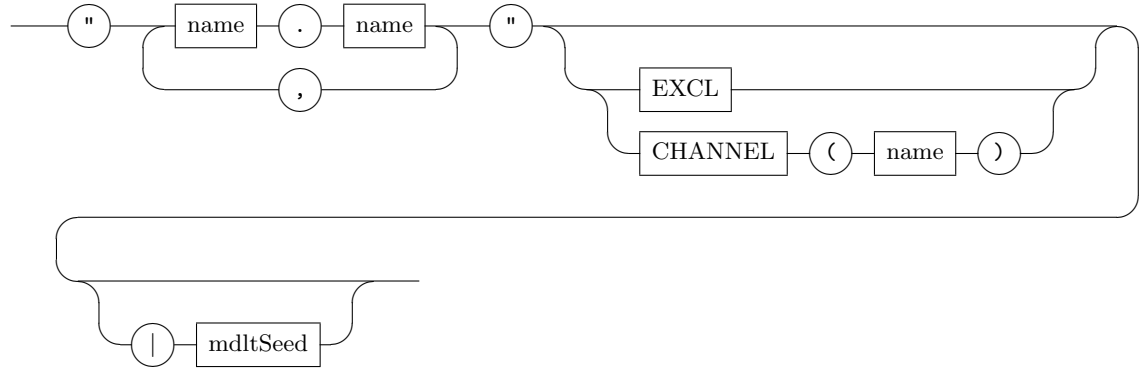
rgltUnit



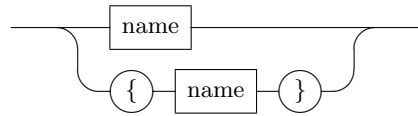
schema



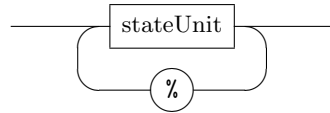
seed



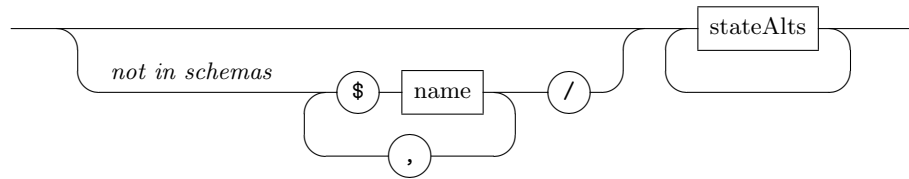
stateActvt



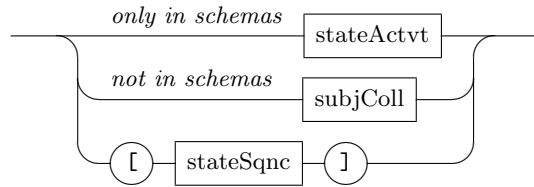
stateAlts



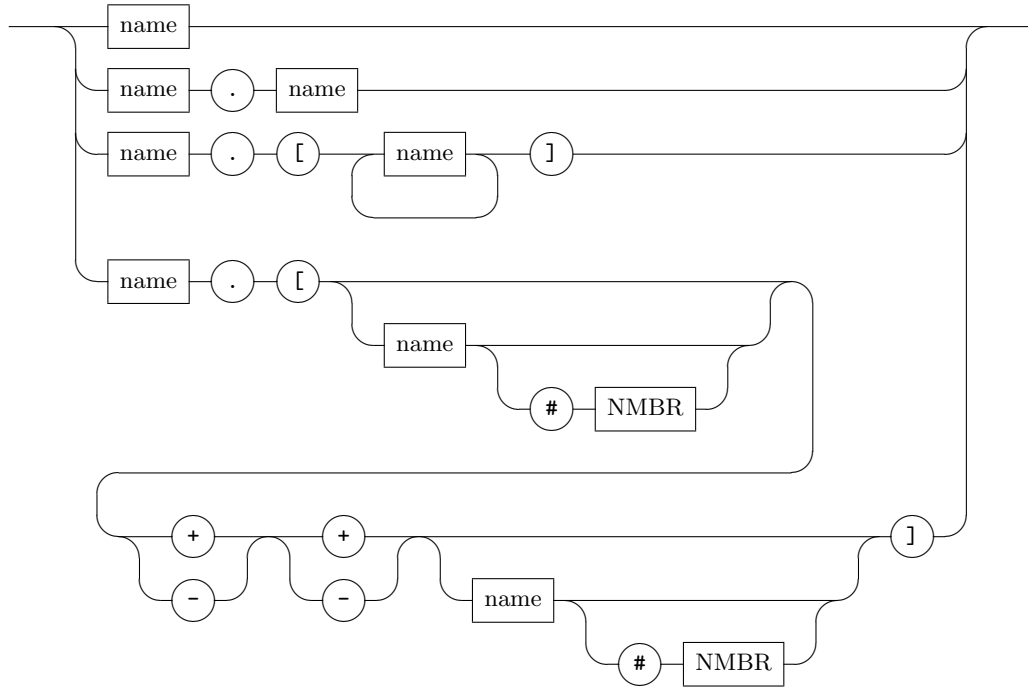
stateSqnc



stateUnit



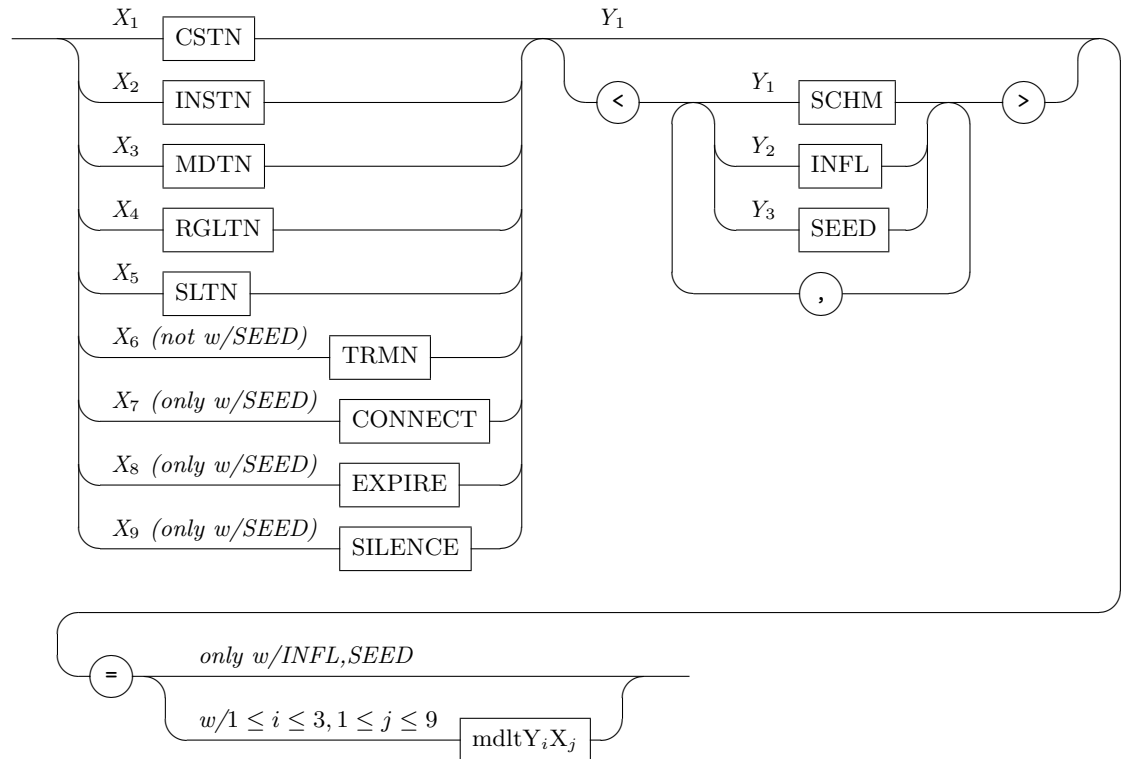
subjColl



2 Modalities (alphabetically)

The syntax for modalities is organized according to the following schematic rule where, e.g., $\text{mdlt}Y_1X_1 = \text{mdltSchmCstn} - \langle \text{SCHM} \rangle$ may be omitted.

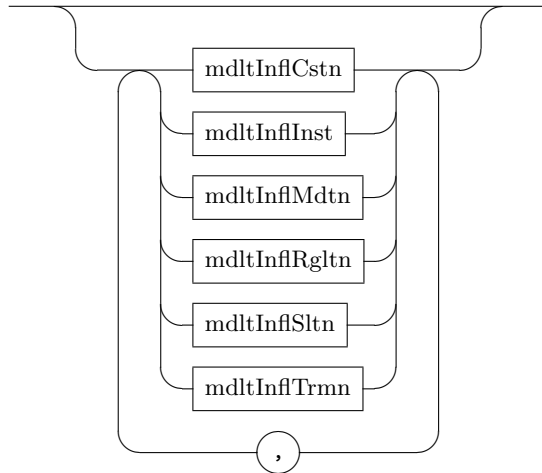
mdltDefault



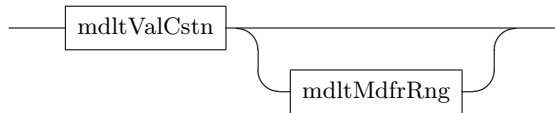
The specific modality rules are ordered alphabetically (and, thus, schematically).

2.1 Influence modalities

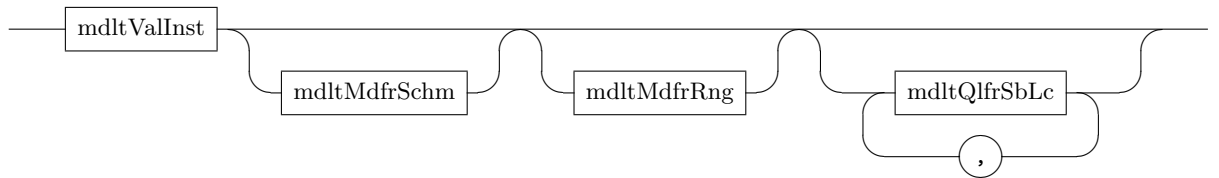
mdltInfl



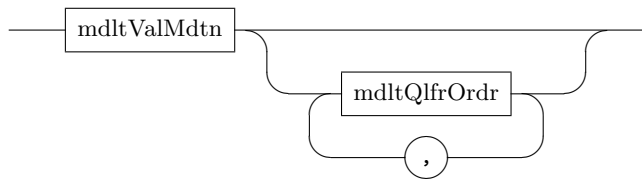
mdltInflCstn



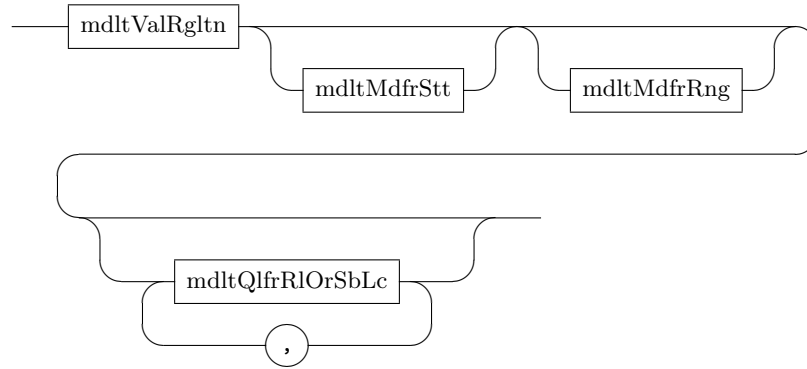
mdltInflInst



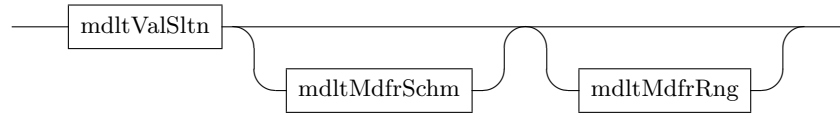
mdltInflMdtm



mdlItInflRgltn



mdlItInflSltn

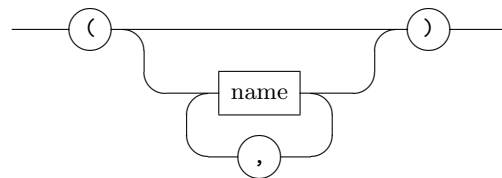


mdlItInflTrmn

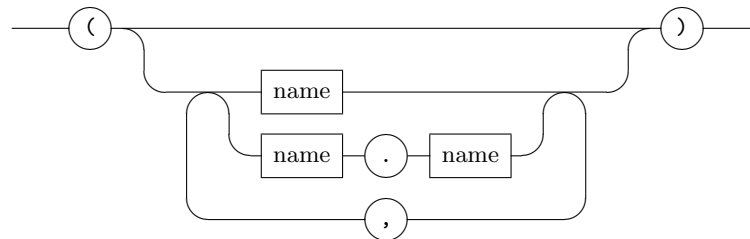


2.2 Modality modifiers

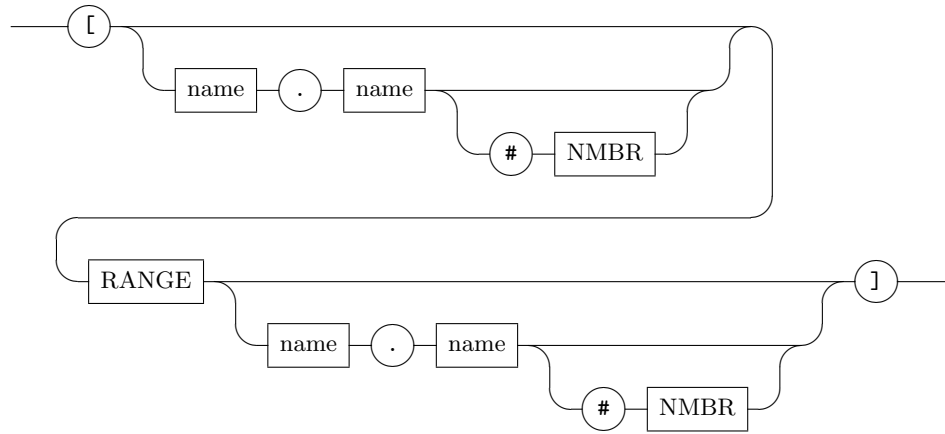
mdlItMdfRschm



mdlItMdfRStt



mdltMdfrRng



2.3 Modality qualifiers

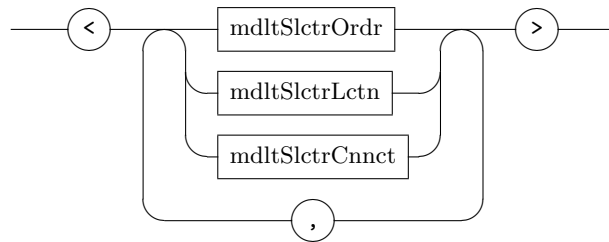
mdltQlfrOrdr



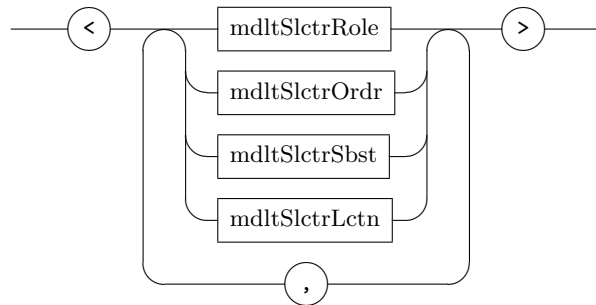
mdltQlfrCnnct



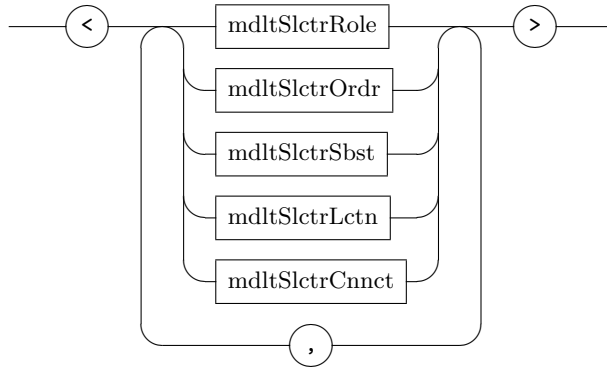
mdltQlfrOrLcCn



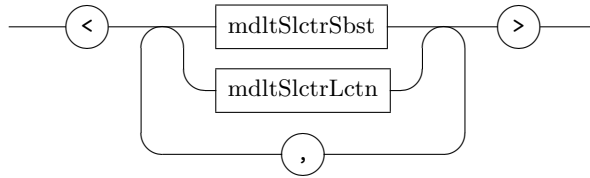
mdltQlfrRlOrSbLc



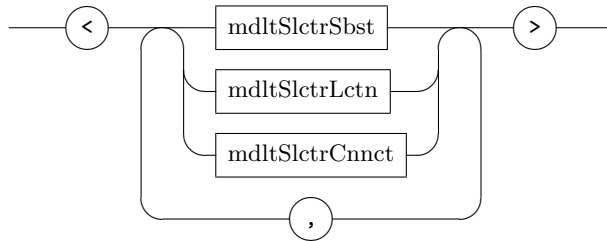
mdltQlfrRlOrSbLcCn



mdltQlfrSbLc



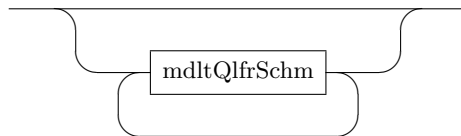
mdltQlfrSbLcCn



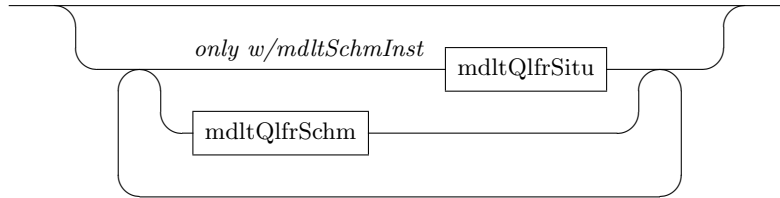
mdltQlfrSitu



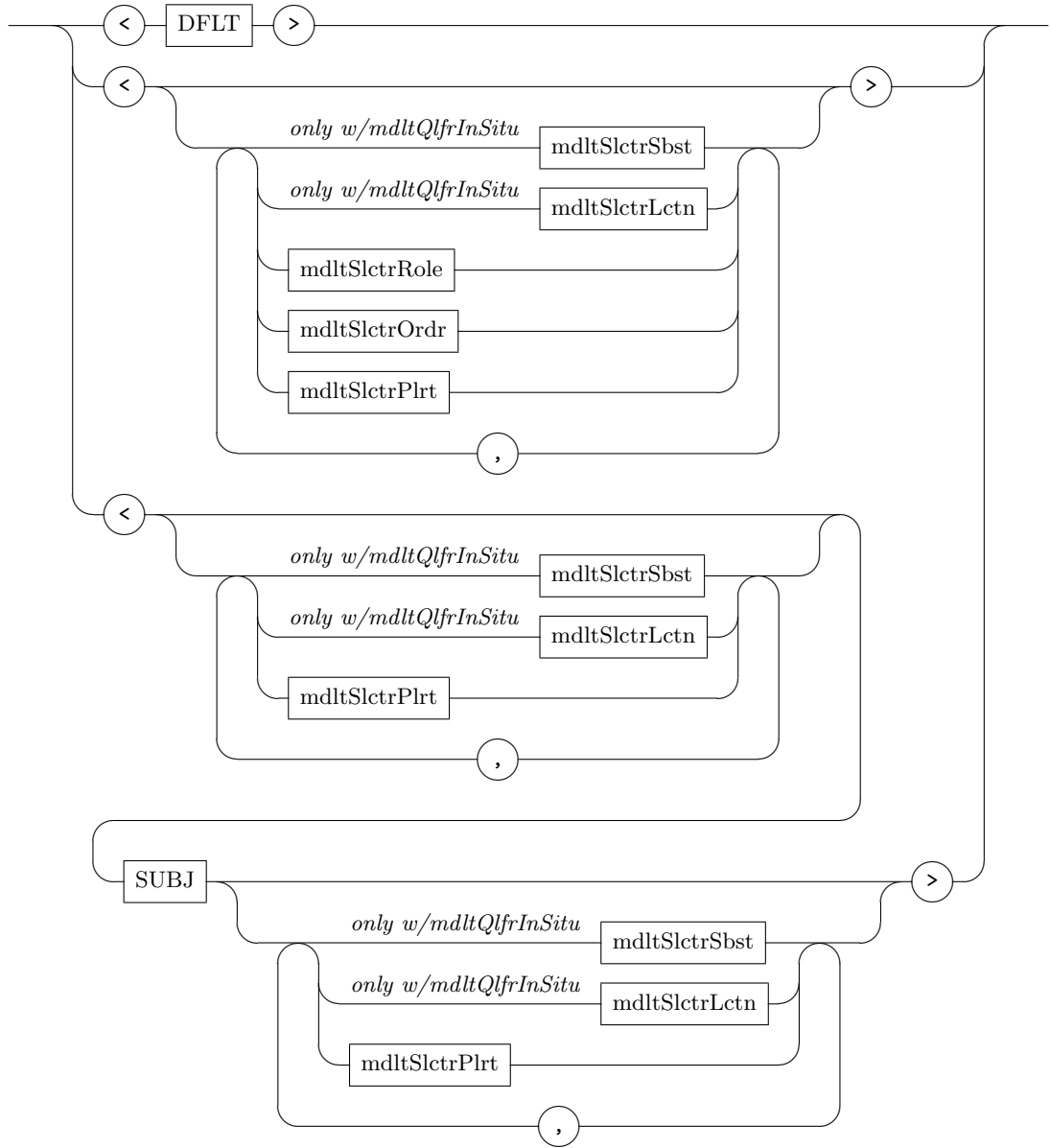
mdltQlfrExSitu



mdltQlfrInSitu

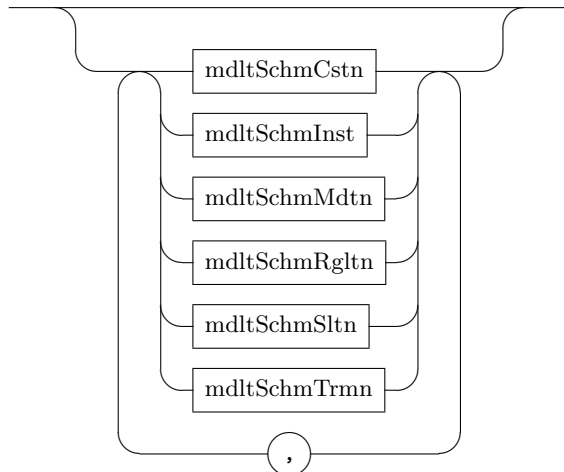


mdltQlfrSchm

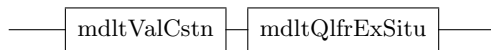


2.4 Schema modalities

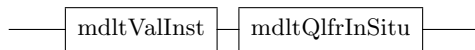
mdltSchm



mdltSchmCstn



mdltSchmInst



mdltSchmMdtm



mdltSchmRgltn



mdltSchmSltn

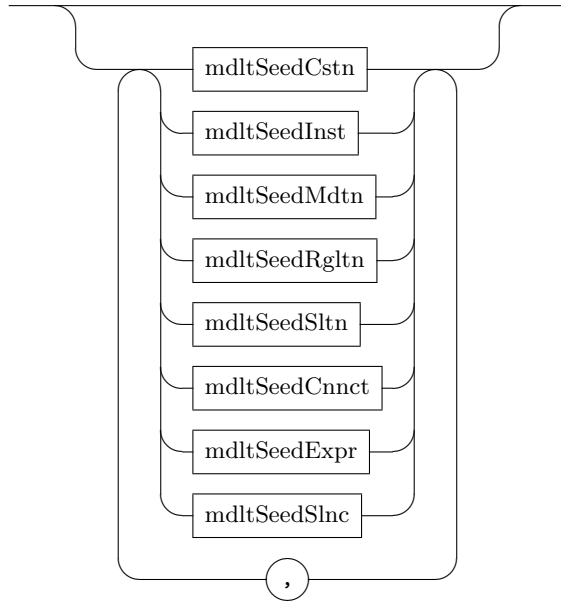


mdltSchmTrmn

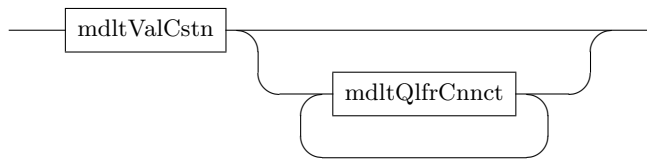


2.5 Seed modalities

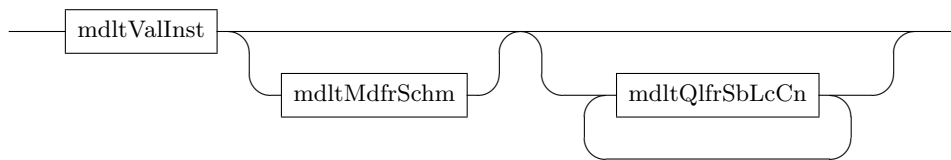
mdltSeed



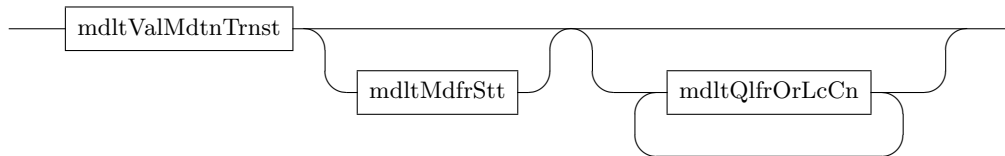
mdltSeedCstn



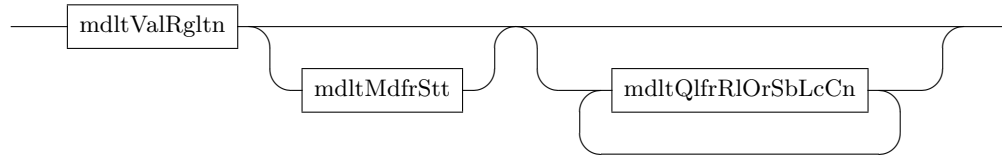
mdltSeedInst



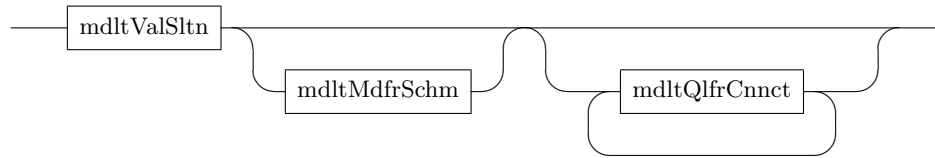
mdltSeedMdtN



mdlSeedRgltn



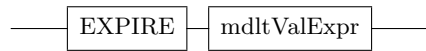
mdlSeedSltn



mdlSeedCnnct



mdlSeedExpr

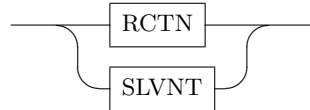


mdlSeedSlnc

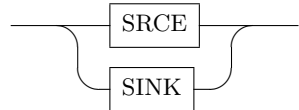


2.6 Modality selectors

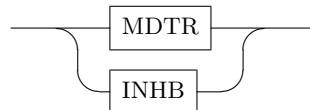
mdlSlctrSbst



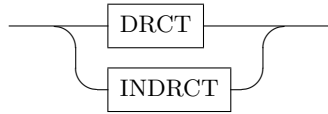
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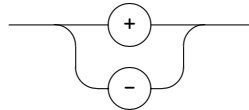
mdlSlctrRole



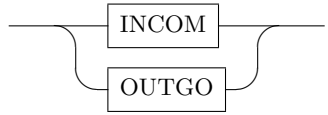
mdltSlctrOrdr



mdltSlctrPrt

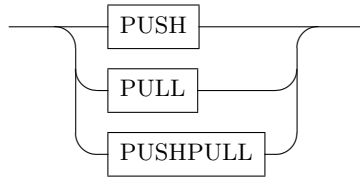


mdltSlctrCnnct



2.7 Modality values

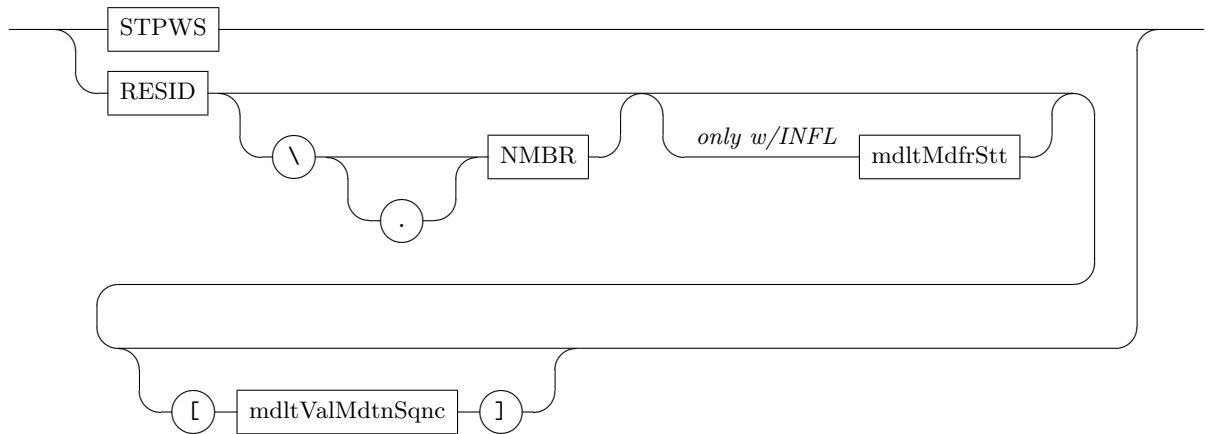
mdltValCstn



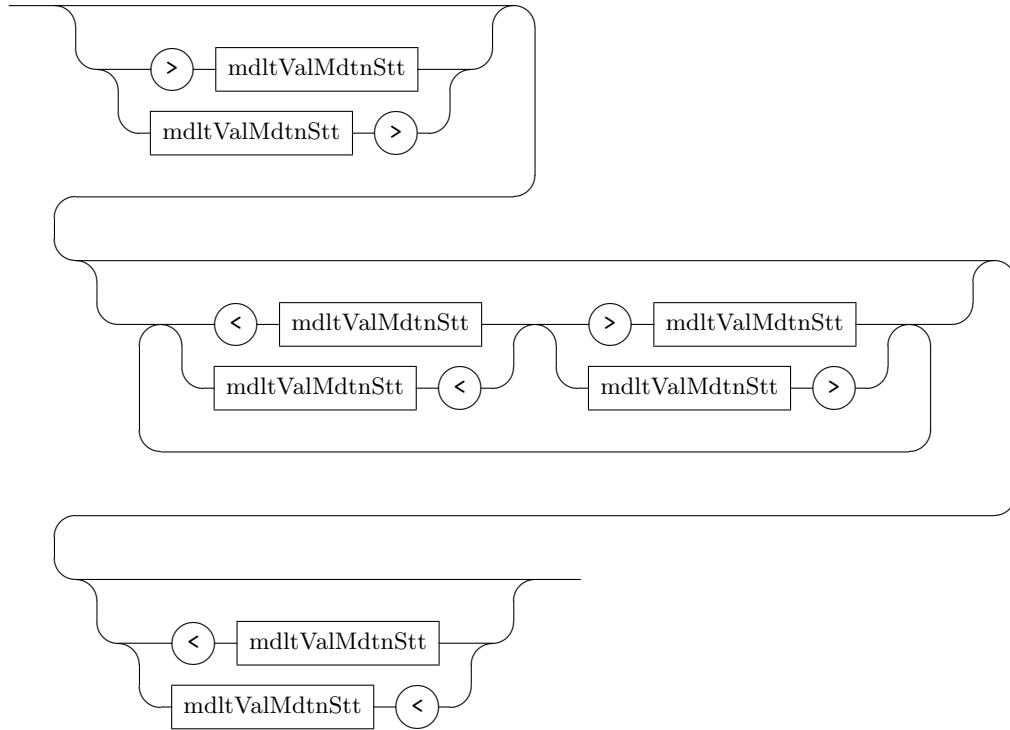
mdltValInst



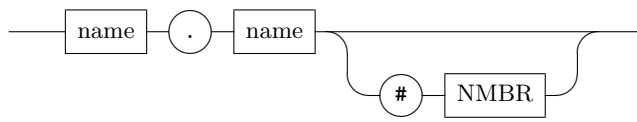
mdltValMdtn



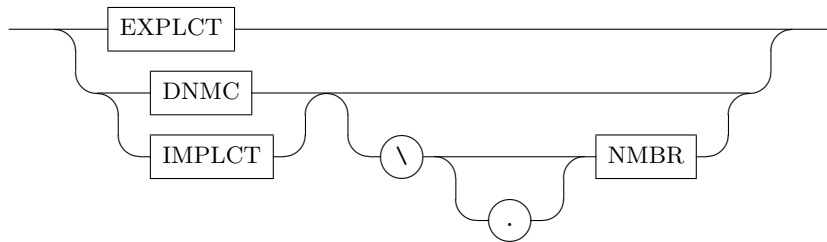
mdlValMdtnSqnc



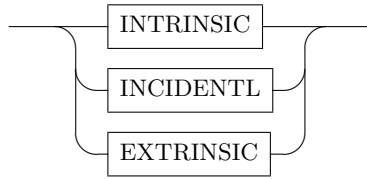
mdlValMdtnStt



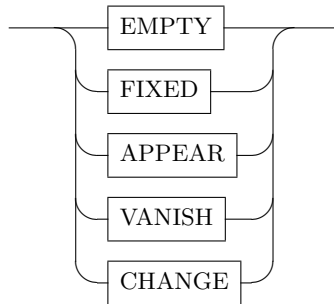
mdlValMdtnTrnst



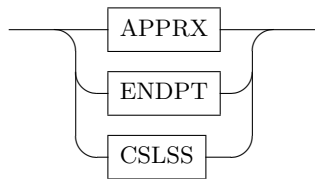
mdlValRglt



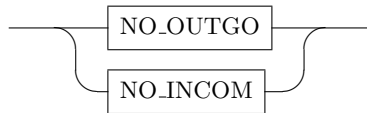
mdlValStn



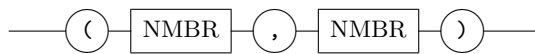
mdlValTrmn



mdlValCnct



mdlValExpr



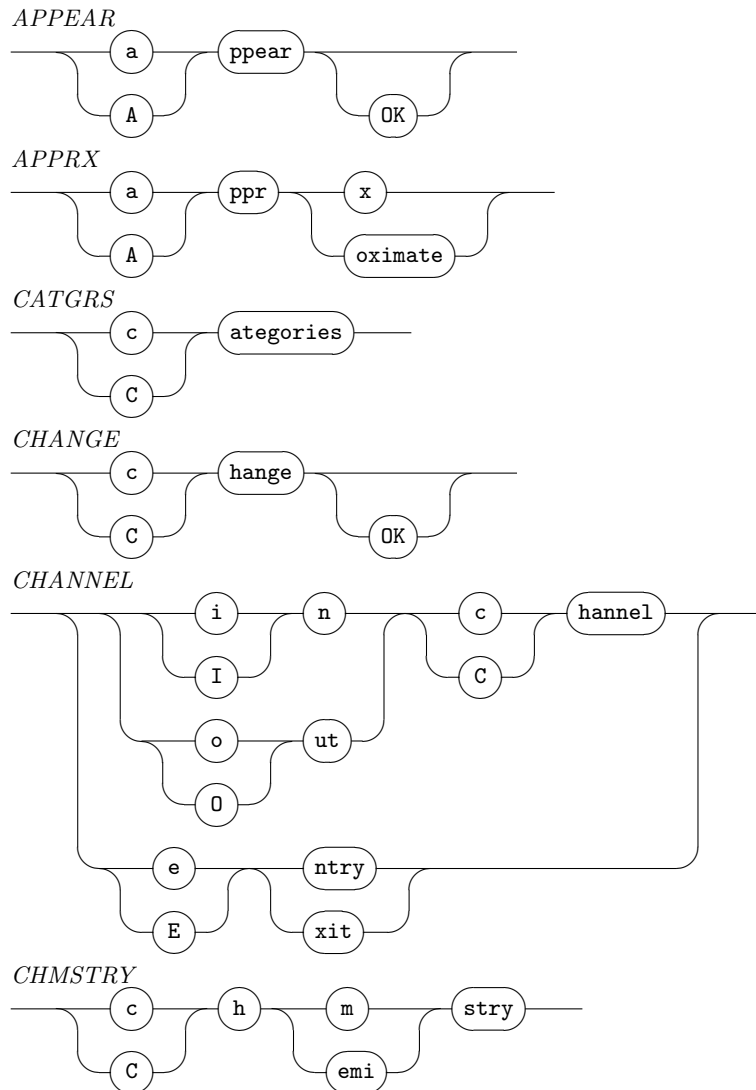
mdlValStnc

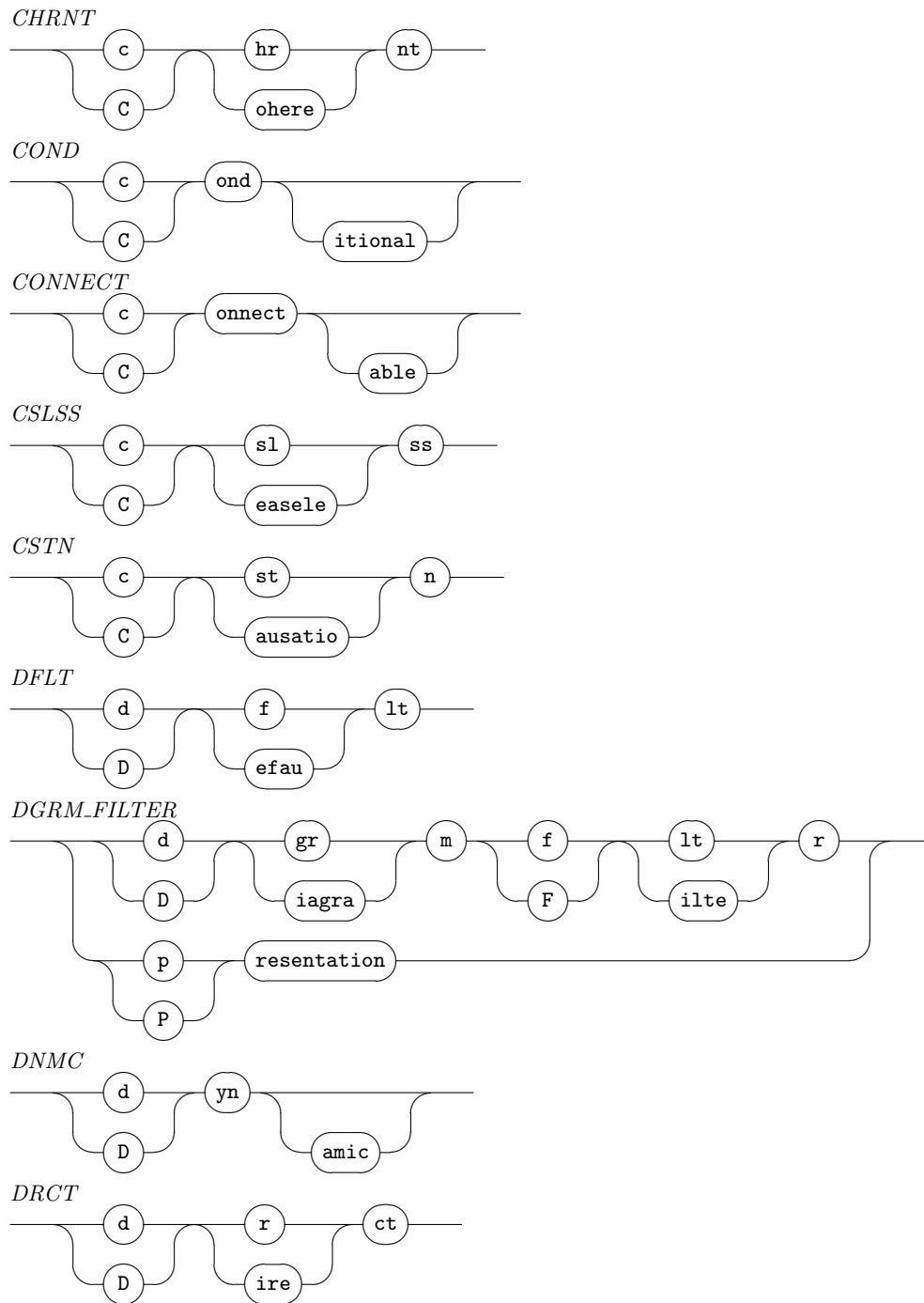


A Words (alphabetically)

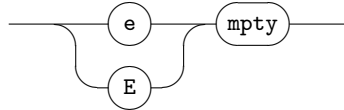
NAME: anything that does not contain a *reserved symbol* (next) and is not a *keyword* (below) — \r is CARRIAGE-RETURN, \n NEWLINE, \t TAB, \ SPACE, and the rest literals.

/* */ \r \n \t _ , ; | [] { } () < >
 ^ ! & : = . % + - " ' @ \ # \$ /

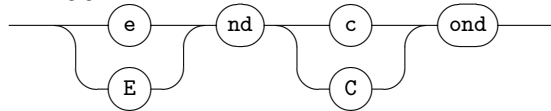




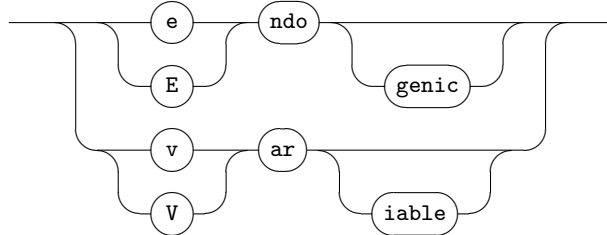
EMPTY



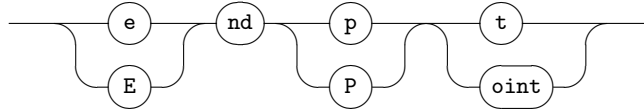
ENDCOND



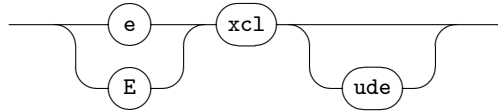
ENDOGENIC



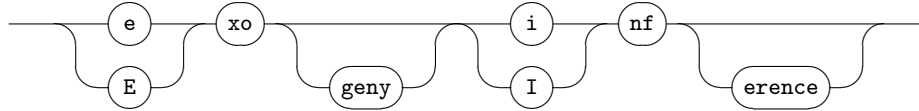
ENDPT



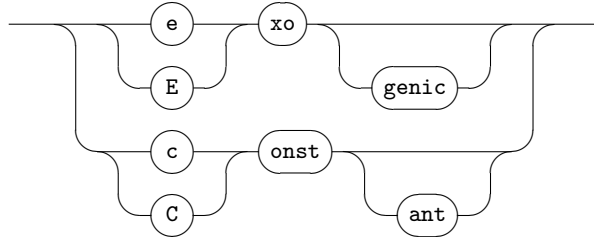
EXCL



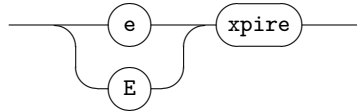
EXO-INF



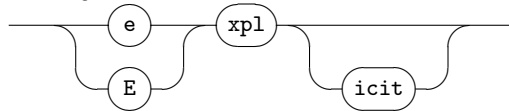
EXOGENIC

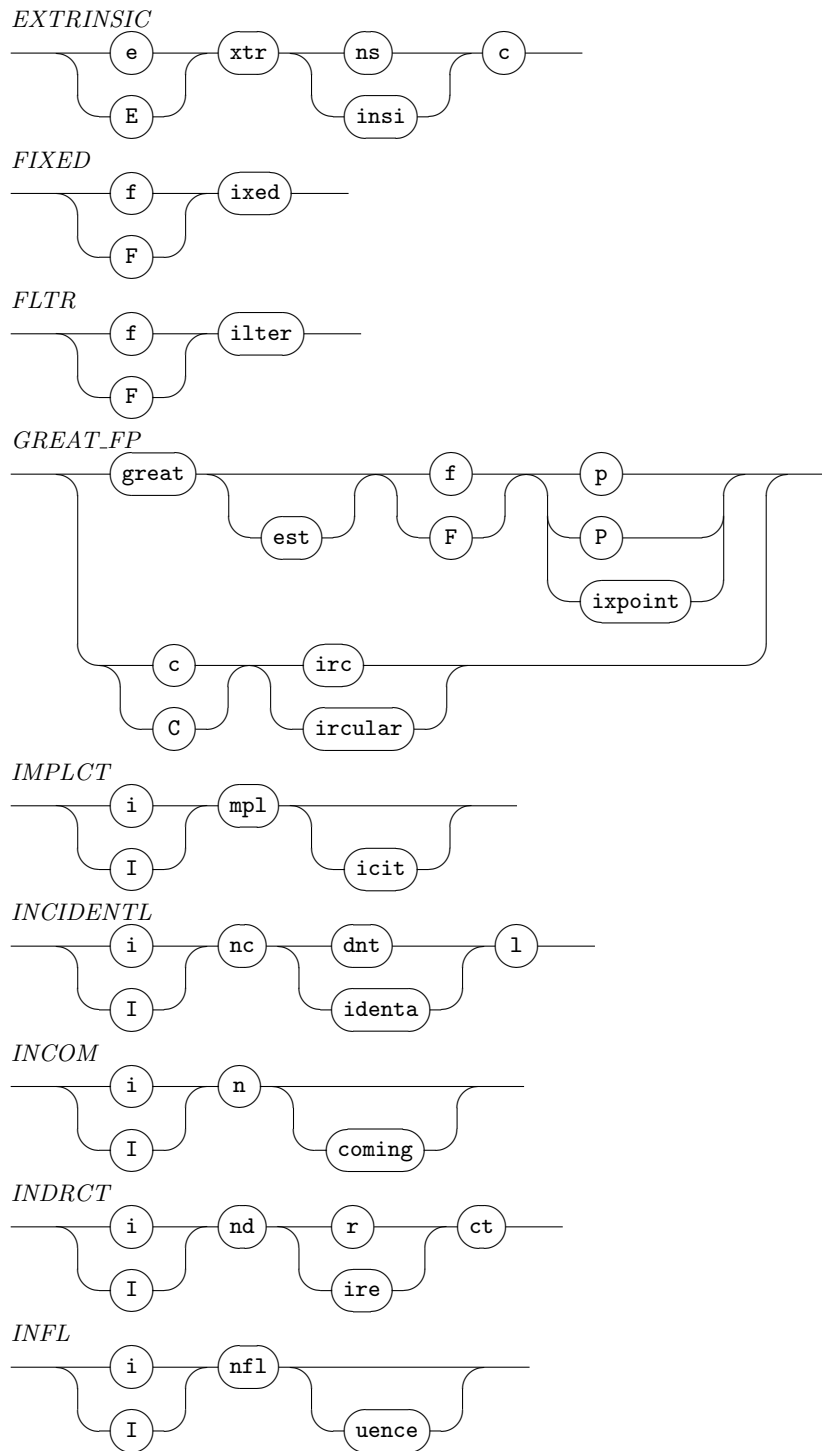


EXPIRE

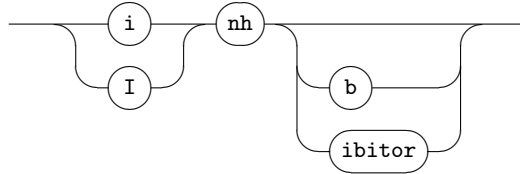


EXPLCT

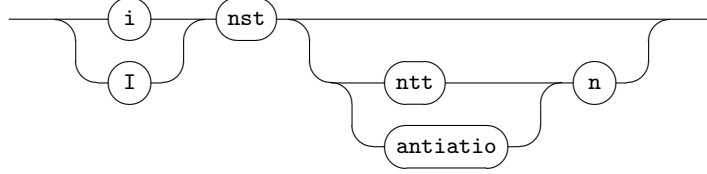




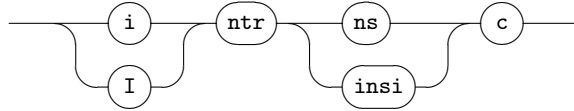
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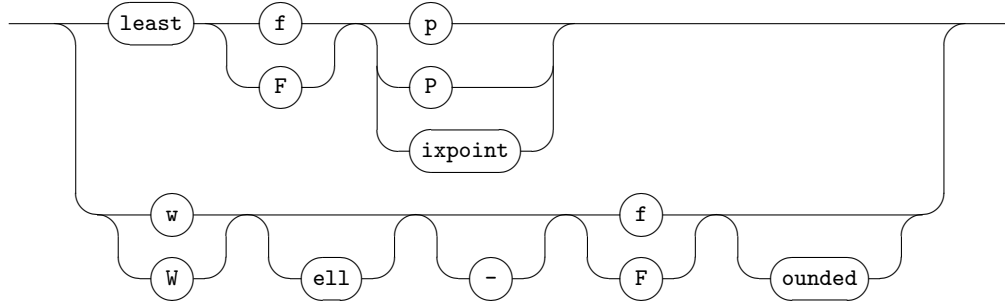
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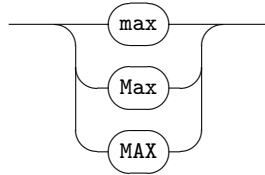
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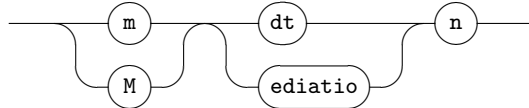
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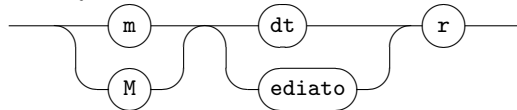
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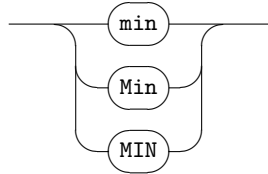
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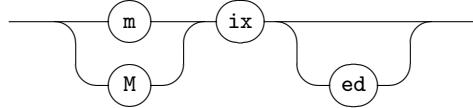
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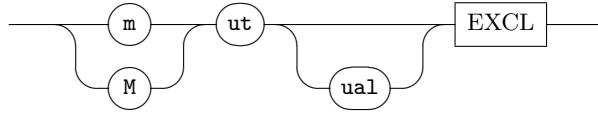
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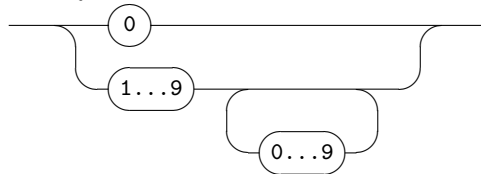
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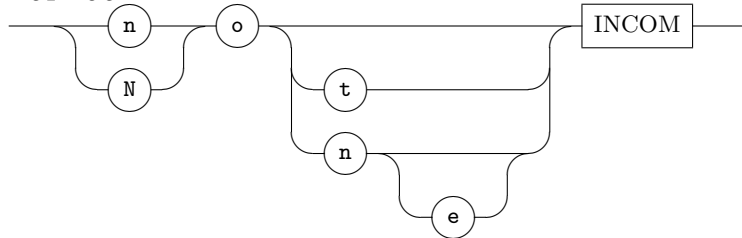
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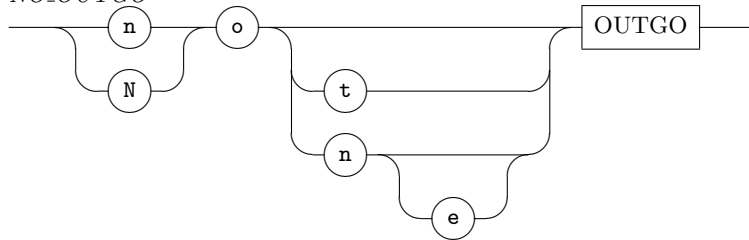
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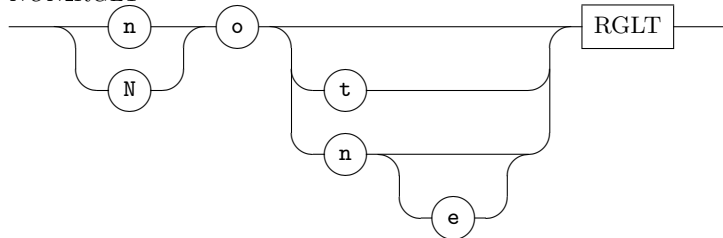
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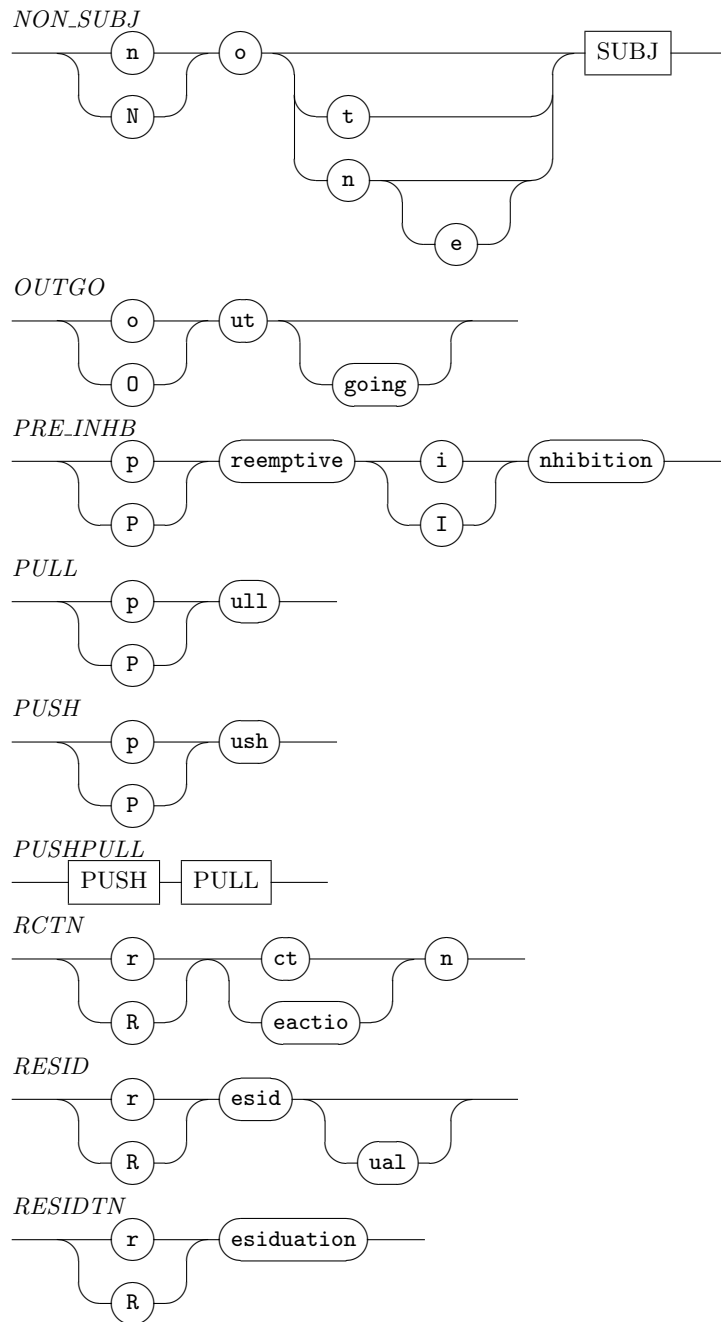


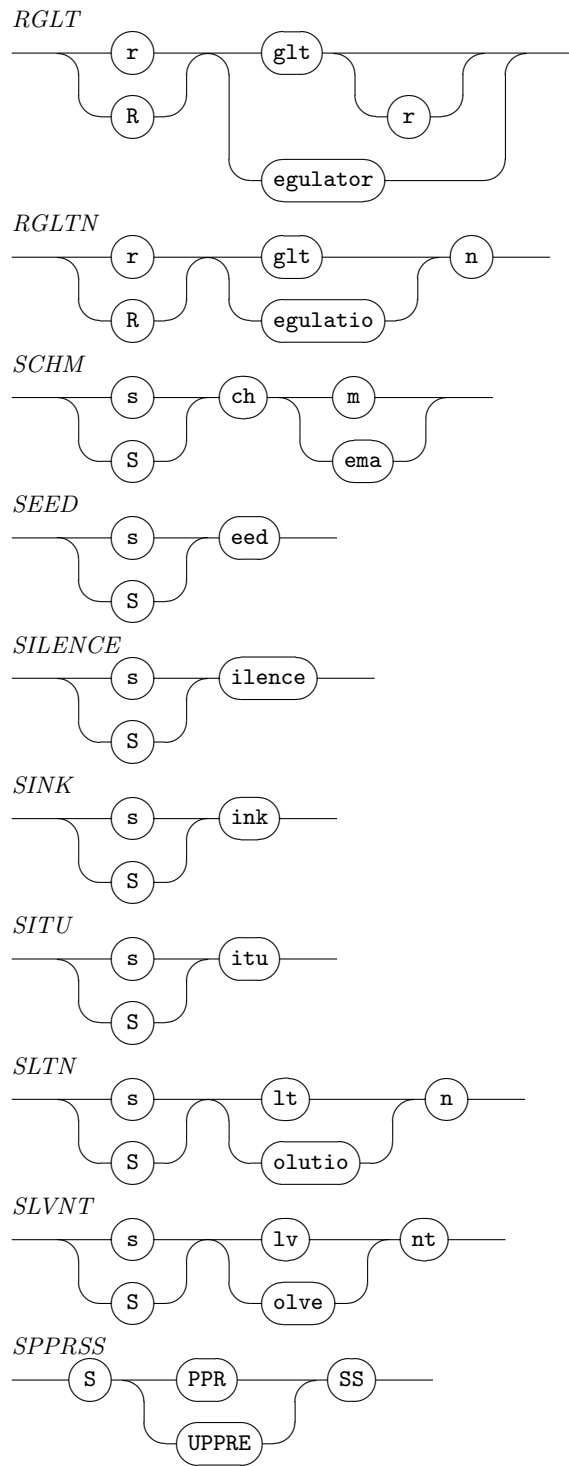
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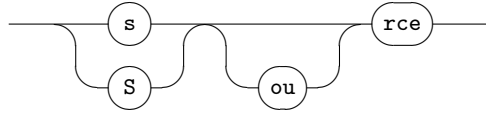
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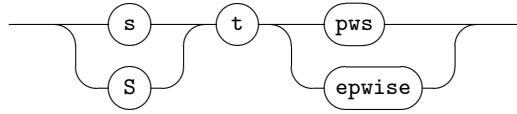




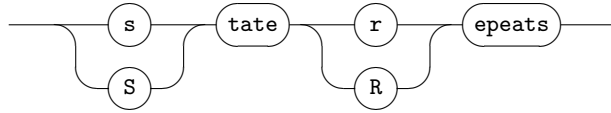
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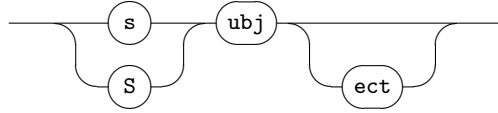
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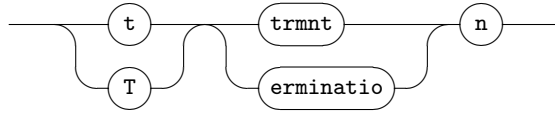
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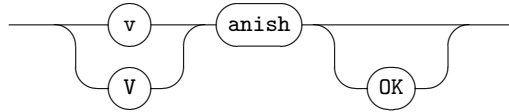
SUBJ



TRMN



VANISH



WARN_MISS

