1. Grammar symbols: Used cross reference.

Reference of each grammar's symbol used within each rule's productions. The index uses the tripple: rule name, its subrule no, and the symbol's position within the symbol string.

2. Rrule:.

Rrules 1.1 Rrules 2.2

3. Rrule_def:.

Rrule 1.1

4. Rrules:.

Rrules_use_cnt 1.1 Rrules 2.1

5. Rsubrule:.

Rsubrules 1.1 Rsubrules 2.2

6. Rsubrule_def:.

Rsubrule 1.1

$7. \quad Rsubrule_s_used_rules:.$

Rsubrule_s_used_rules_epi 2.1 Rsubrule_s_used_rules 2.1

8. Rsubrule_s_used_rules_epi:.

Rsubrules 1.2 Rsubrules 2.3

9. Rsubrules:.

Rrule 1.2 Rsubrules 2.1

10. ϵ :.

Rsubrule_s_used_rules_epi 1.1

11. eog:.

Rrules_use_cnt 1.2

12. refered-rule:.

Rsubrule_s_used_rules 1.1 Rsubrule_s_used_rules 2.2

13. rule-def:.

 $Rrule_def 1.1$

14. subrule-def:.

Rsubrule_def 1.1

15. Grammar Rules's First Sets.

- **16.** Rrules_use_cnt # in set: 1. rule-def
- 17. Rrules # in set: 1. rule-def
- **18.** *Rrule* **# in set: 1.** rule-def
- 19. $Rrule_def \# in set: 1.$ rule-def
- **20.** Rsubrules # in set: 1. subrule-def
- **21.** Rsubrule # in set: 1. subrule-def
- **22.** Rsubrule_def # in set: 1. subrule-def
- 23. $Rsubrule_s_used_rules_epi^{\epsilon} \# \text{ in set: 1.}$ refered-rule
- **24.** Rsubrule_s_used_rules # in set: 1. refered-rule

25. LR State Network.

List of productions with their derived LR state lists. Their subrule number and symbol string indicates the specific production being derived. The ">" symbol indicates the production's list of derived states from its closured state. Multiple lists within a production indicate 1 of 2 things:

- 1) derived string that could not be merged due to a lr(1) conflict
- 2) partially derived string merged into another derived lr states

A partially derived string is indicated by the "merged into" symbol \(^{\textsup}\) used as a superscript along with the merged into state number.

26. Rrules_use_cnt.

- 1 Rrules eog $\triangleright 1 \ 3 \ 4$
- 27. Rrules.
- $\begin{array}{cccc} 1 & Rrule \\ & \triangleright 1 & 17 \\ 2 & Rrules & Rrule \\ & \triangleright 1 & 3 & 5 \end{array}$

3

28. Rrule.

1 Rrule_def Rsubrules

$$\begin{array}{ccc} \triangleright 1 & 6 & 8 \\ \triangleright 3^{\nearrow 6} & \end{array}$$

Rrule_def. 29.

1 rule-def

$$\triangleright 1 \quad 2$$
$$\triangleright 3^{\nearrow 2}$$

30. Rsubrules.

1 Rsubrule_s_used_rules_epi

2 Rsubrules Rsubrules Rsubrules Rsubrules Psi

31. Rsubrule.

1 Rsubrule_def

32. Rsubrule_def.

1 subrule-def

33. Rsubrule_s_used_rules_epi.

 1ϵ

⊳ 9

2 Rsubrule_s_used_rules

$$\triangleright 15^{\nearrow 12}$$

34. Rsubrule_s_used_rules.

1 refered-rule

$$\triangleright 15^{\nearrow 10}$$

 $2\ Rsubrule_s_used_rules\ refered-rule$

$$\triangleright 9 12 13$$

$$\triangleright 15^{\nearrow 12}$$

35. List of reducing states.

The following legend indicates the type of reducing state.

Points 2–4 are states that must meet the lr(1) condition:

- 1) r only 1 production reducing 2) r^2 2 or more reducing productions
- 3) s/r shift and 1 reducing production 4) s/ r^2 shift and multiple reducing productions

 $\subset 2^{r} \quad 4^{r} \quad 5^{r} \quad 7^{r} \quad 8^{s/r} \quad 9^{s/r} \quad 10^{r} \quad 11^{r} \quad 12^{s/r} \quad 13^{r} \quad 14^{r} \quad 15^{s/r} \quad 16^{r} \quad 17^{r}$

36. Lr1 State's Follow sets and reducing lookahead sets.

Notes on Follow set expressions:

rules_use_cnt_idx.w

1) The "follow set" for rule uses its literal name and tags its grammar rule rank number as a superscript. Due to space limitations, part of the follow set information uses the rule's literal name while the follow set expressions refers to the rule's rank number. This < rule name, rule rank number > tupple allows you the reader to decifer the expressions. Transitions are represented by S_xR_z whereby S is the LR1 state identified by its "x" subscript where other transient calculations occur within the LR1 state network. R indicates the follow set rule with the subscript "z" as its grammar rank number that contributes to the follow set.

The \nearrow^x symbol indicates that a merge into state "x" has taken place. That is, the reduced subrule that depends on this follow set finds its follow set in 2 places: its birthing state that generated the sequence up to the merged into state, and the birthing state that generated the "merged into" state. So the rule's "follow set" calculation must also continue its calculation within the birth state generating the "x merged into" state.

```
State: 1
                   Follow Set contributors, merges, and transitions
\leftarrow Follow set Rule
                                                       follow set symbols contributors
Rrules_use_cnt<sup>1</sup>
Local follow set yield:
  eolr.
\leftarrow Follow set Rule
                                                       follow set symbols contributors
{\rm Rrules^2}
                                  R_{1\cdot 1\cdot 1} R_{2\cdot 2\cdot 1}
Local follow set yield:
  eog, rule-def.
\leftarrow Follow set Rule
                                                       follow set symbols contributors
Rrule^3
                                  R_{2\cdot 1\cdot 1} S_1 R_2
Local follow set yield:
\leftarrow Follow set Rule
                                                       follow set symbols contributors
                                  R_{3\cdot 1\cdot 1} \nearrow^3
Rrule_def<sup>4</sup>
Local follow set yield:
  subrule-def.
                   Follow Set contributors, merges, and transitions
\leftarrow Follow set Rule \rightarrow \leftarrow
                                                       follow set symbols contributors
                                  R_{2\cdot 2\cdot 2} \nearrow 1 S_1 R_2
Rrule^3
Local follow set yield:
\leftarrow Follow set Rule
                                                       follow set symbols contributors
Rrule_def<sup>4</sup>
                                  R_{3\cdot 1\cdot 1}
Local follow set yield:
  subrule-def.
State: 6
                   Follow Set contributors, merges, and transitions
                                                       follow set symbols contributors
\leftarrow Follow set Rule
Rsubrules<sup>5</sup>
                                  R_{3\cdot 1\cdot 2} R_{5\cdot 2\cdot 1} S_3 R_3
Local follow set yield:
  subrule-def.
\leftarrow Follow set Rule
                                                       follow set symbols contributors
Rsubrule<sup>6</sup>
                                 R_{5\cdot 1\cdot 1} R_{5\cdot 1\cdot 2} S_6 R_5
Local follow set yield:
```

LR1 STATE'S FOLLOW SETS AND REDUCING LOOKAHEAD SETS rules_use_cnt_idx.w refered-rule. \leftarrow Follow set Rule $\rightarrow \leftarrow$ follow set symbols contributors \rightarrow $R_{6\cdot 1\cdot 1} \nearrow 8 S_6 R_6$ Rsubrule_def⁷ Local follow set yield: Follow Set contributors, merges, and transitions $\begin{array}{ccccc} \leftarrow & \text{Follow set Rule} & \rightarrow \leftarrow & \text{follo} \\ \text{Rsubrule}^6 & & \text{R}_{5 \cdot 2 \cdot 2} \; \text{R}_{5 \cdot 2 \cdot 3} \end{array} \nearrow^6 \text{S}_6 R_5$ follow set symbols contributors Local follow set yield: refered-rule. \leftarrow Follow set Rule $\rightarrow \leftarrow$ follow set symbols contributors Rsubrule_def⁷ $R_{6\cdot 1\cdot 1} S_8 R_6$ Local follow set yield: Follow Set contributors, merges, and transitions $\leftarrow \hspace{0.1in} \texttt{Follow} \hspace{0.1in} \mathtt{set} \hspace{0.1in} \mathtt{Rule} \hspace{0.1in} \rightarrow \leftarrow \hspace{1.1in} \mathtt{follow} \hspace{0.1in} \mathtt{set} \hspace{0.1in} \mathtt{symbols} \hspace{0.1in} \mathtt{contributors}$ Rsubrule_s_used_rules_epi⁸ R_{5·2·3} \nearrow 15 S₆R₅ Local follow set yield: $\begin{array}{lll} \leftarrow & \texttt{Follow set Rule} & \rightarrow \leftarrow & \texttt{follow Rsubrule_s_used_rules}^9 & \rightarrow & R_{8 \cdot 2 \cdot 1} & R_{9 \cdot 2 \cdot 1} & \nearrow^{15} & S_9 R_8 \end{array}$ follow set symbols contributors Local follow set yield: refered-rule. State: 15 Follow Set contributors, merges, and transitions \leftarrow Follow set Rule $\rightarrow \leftarrow$ follow set symbols contributors Rsubrule_s_used_rules_epi⁸ R_{5·1·2} S₆ R_5 Local follow set yield:

follow set symbols contributors \leftarrow Follow set Rule $\rightarrow \leftarrow$ $R_{8\cdot 2\cdot 1} R_{9\cdot 2\cdot 1} S_{15} R_8$ Rsubrule_s_used_rules⁹ Local follow set yield:

refered-rule.

§37 rules_use_cnt_idx.w COMMON FOLLOW SETS

37. Common Follow sets.

38. LA set: 1.

subrule-def.

39. LA set: 2.

eolr.

40. LA set: 3.

eog, rule-def.

41. LA set: 4.

eog, rule-def, subrule-def, refered-rule.

42. LA set: 5.

eog, rule-def, subrule-def.

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43. Index.

```
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Rsubrules: 20.
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File: rules_use_cnt_idx.w

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