

**1. Copyright.**

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**2. eval\_phrases Grammar.**

Make sure all the grammar phases are properly parsed. This is due to my not programming a grammar sequencer to explicitly define the syntax of a grammar. I wanted to parse each phrase separately by keyword triggering a descent procedure.

Question: What source GPS do u align the error against? i just place it to the beginning of the grammar file if there is no previous phase seen. A previous phase becomes the reference point to the source file. If i was energetic, i should get the last token of that phase to be more accurate but today i'm lazy. The message is adequate to correct the problem.

**3. Fsm\_Ceval\_phrases class.****4. Ceval\_phrases op directive.**

```
< Ceval_phrases op directive 4 > ≡
gps_ = 0;
```

**5. Ceval\_phrases user-declaration directive.**

```
< Ceval_phrases user-declaration directive 5 > ≡
public: CAbs_lr1_sym * gps_;
void post_error(CAbs_lr1_sym * Err);
void post_gps(CAbs_lr1_sym * Sym);
```

**6. Ceval\_phrases user-implementation directive.**

```
< Ceval_phrases user-implementation directive 6 > ≡
void Ceval_phrases::post_error(CAbs_lr1_sym * Err)
{
    using namespace NS_yacco2_T_enum;
    Err->set_rc(*gps_, __FILE__, __LINE__);
    if (gps_-enumerated_id_ ≡ T_Enum::T_LR1_eog_) {
        Err->set_line_no_and_pos_in_line(1, 1);
    }
    parser__->add_token_to_error_queue(*Err);
    parser__->set_abort_parse(true);
}
```

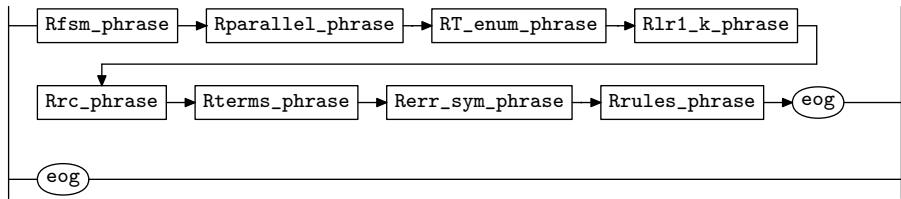
**7. post\_gps.**

```
< More code 7 > ≡
void Ceval_phrases::post_gps(CAbs_lr1_sym * Sym)
{
    gps_ = Sym;
}
```

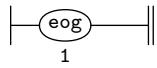
### 8. *Reval\_phrases rule.*

Use the property of Rule's sequencing within a production to determine whether the parsed phrases were missed or out of sequence. Report them as errors.

*Reval\_phrases*



### 9. *Reval\_phrases's subrule 2.*



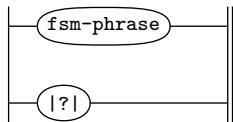
$\langle \text{Reval\_phrases subrule 2 op directive 9} \rangle \equiv$

```

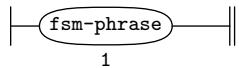
Ceval_phrases * fsm = ( Ceval_phrases * ) rule_info...parser--fsm_tbl--;
fsm->post_error(new Err_empty_file);
fsm->post_gps(sf->p1--);
  
```

### 10. *Rfsm\_phrase rule.*

*Rfsm\_phrase*



### 11. *Rfsm\_phrase's subrule 1.*

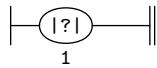


$\langle \text{Rfsm\_phrase subrule 1 op directive 11} \rangle \equiv$

```

Ceval_phrases * fsm = ( Ceval_phrases * ) rule_info...parser--fsm_tbl--;
fsm->post_gps(sf->p1--);
  
```

### 12. *Rfsm\_phrase's subrule 2.*



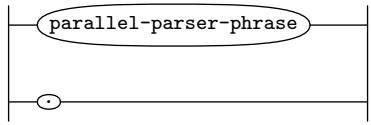
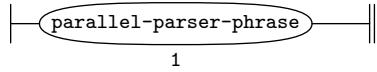
$\langle \text{Rfsm\_phrase subrule 2 op directive 12} \rangle \equiv$

```

Ceval_phrases * fsm = ( Ceval_phrases * ) rule_info...parser--fsm_tbl--;
fsm->post_gps(sf->p1--);
fsm->post_error(new ERR_no_fsm_phrase);
  
```

**13. *Rparallel\_phrase rule.***

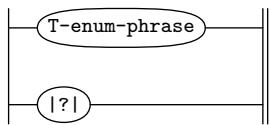
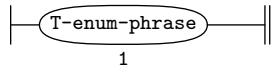
Rparallel\_phrase

**14. *Rparallel\_phrase's subrule 1.***

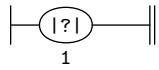
$\langle \text{Rparallel\_phrase subrule 1 op directive 14} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{rule\_info--.parser--fsm\_tbl--};$   
 $\text{fsm--post\_gps(sf--p1--);}$

**15. *RT\_enum\_phrase rule.***

RT\_enum\_phrase

**16. *RT\_enum\_phrase's subrule 1.***

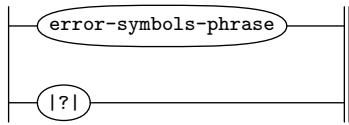
$\langle \text{RT\_enum\_phrase subrule 1 op directive 16} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{rule\_info--.parser--fsm\_tbl--};$   
 $\text{fsm--post\_gps(sf--p1--);}$

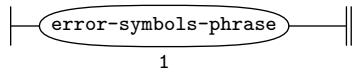
**17. *RT\_enum\_phrase's subrule 2.***

$\langle \text{RT\_enum\_phrase subrule 2 op directive 17} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{rule\_info--.parser--fsm\_tbl--};$   
 $\text{fsm--post\_gps(sf--p1--);}$   
 $\text{fsm--post\_error(new ERR\_no\_T\_enum\_phrase);}$

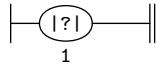
**18. *Rerr\_sym\_phrase rule.***

Rerr\_sym\_phrase

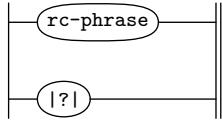
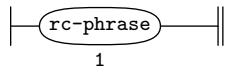


**19. *Rerr-sym-phrase*'s subrule 1.**

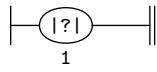
$\langle \text{Rerr\_sym\_phrase subrule 1 op directive 19} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info\_parser\_fsm\_tbl\_};$   
 $\text{fsm\_post\_gps(sf\_p1\_);}$

**20. *Rerr-sym-phrase*'s subrule 2.**

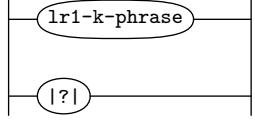
$\langle \text{Rerr\_sym\_phrase subrule 2 op directive 20} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info\_parser\_fsm\_tbl\_};$   
 $\text{fsm\_post\_gps(sf\_p1\_);}$   
 $\text{fsm\_post\_error(new ERR\_no\_errors\_phrase);}$

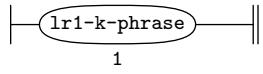
**21. *Rrc-phrase* rule.****Rrc\_phrase****22. *Rrc-phrase*'s subrule 1.**

$\langle \text{Rrc\_phrase subrule 1 op directive 22} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info\_parser\_fsm\_tbl\_};$   
 $\text{fsm\_post\_gps(sf\_p1\_);}$

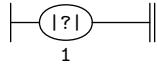
**23. *Rrc-phrase*'s subrule 2.**

$\langle \text{Rrc\_phrase subrule 2 op directive 23} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info\_parser\_fsm\_tbl\_};$   
 $\text{fsm\_post\_gps(sf\_p1\_);}$   
 $\text{fsm\_post\_error(new ERR\_no\_rc\_phrase);}$

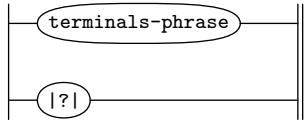
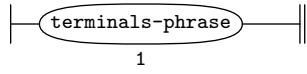
**24. *Rlr1-k-phrase* rule.****Rlr1\_k\_phrase**

**25. *Rlr1\_k\_phrase*'s subrule 1.**

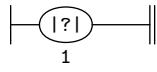
$\langle \text{Rlr1\_k\_phrase subrule 1 op directive 25} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info--parser--fsm\_tbl--};$   
 $\text{fsm} \rightarrow \text{post\_gps}(\text{sf} \rightarrow \text{p1--});$

**26. *Rlr1\_k\_phrase*'s subrule 2.**

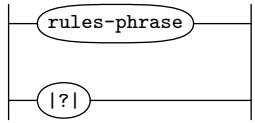
$\langle \text{Rlr1\_k\_phrase subrule 2 op directive 26} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info--parser--fsm\_tbl--};$   
 $\text{fsm} \rightarrow \text{post\_gps}(\text{sf} \rightarrow \text{p1--});$   
 $\text{fsm} \rightarrow \text{post\_error}(\text{new } \text{ERR\_no\_lrk\_phrase});$

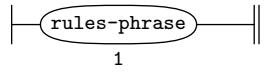
**27. *Rterms\_phrase* rule.****Rterms\_phrase****28. *Rterms\_phrase*'s subrule 1.**

$\langle \text{Rterms\_phrase subrule 1 op directive 28} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info--parser--fsm\_tbl--};$   
 $\text{fsm} \rightarrow \text{post\_gps}(\text{sf} \rightarrow \text{p1--});$

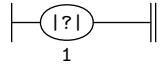
**29. *Rterms\_phrase*'s subrule 2.**

$\langle \text{Rterms\_phrase subrule 2 op directive 29} \rangle \equiv$   
 $\text{Ceval\_phrases * fsm} = (\text{Ceval\_phrases *}) \text{ rule\_info--parser--fsm\_tbl--};$   
 $\text{fsm} \rightarrow \text{post\_gps}(\text{sf} \rightarrow \text{p1--});$   
 $\text{fsm} \rightarrow \text{post\_error}(\text{new } \text{ERR\_no\_terminals\_phrase});$

**30. *Rrules\_phrase* rule.****Rrules\_phrase**

**31. *Rrules-phrase*'s subrule 1.**

$\langle \text{Rrules\_phrase subrule 1 op directive 31} \rangle \equiv$   
 $Ceval\_phrases * fsm = ( Ceval\_phrases * ) rule\_info\_parser\_fsm\_tbl\_;$   
 $fsm \rightarrow post\_gps(sf \rightarrow p1\_);$

**32. *Rrules-phrase*'s subrule 2.**

$\langle \text{Rrules\_phrase subrule 2 op directive 32} \rangle \equiv$   
 $Ceval\_phrases * fsm = ( Ceval\_phrases * ) rule\_info\_parser\_fsm\_tbl\_;$   
 $fsm \rightarrow post\_gps(sf \rightarrow p1\_);$   
 $fsm \rightarrow post\_error(\mathbf{new} ERR\_no\_rules\_phrase);$

**33. First Set Language for  $O_2^{linker}$ .**

```
/*
File: eval_phrases.fsc
Date and Time: Fri Jan  2 15:33:35 2015
*/
transitive    n
grammar-name  "eval_phrases"
name-space    "NS_eval_phrases"
thread-name   "Ceval_phrases"
monolithic    y
file-name     "eval_phrases.fsc"
no-of-T       569
list-of-native-first-set-terminals 3
  LR1_questionable_shift_operator
  LR1_eog
  T_fsm_phrase
end-list-of-native-first-set-terminals
list-of-transitive-threads 0
end-list-of-transitive-threads
list-of-used-threads 0
end-list-of-used-threads
fsm-comments
"Evaluate parse phrase sequencer: \n as i use a top / down approach to dispatching the
various phrases."
```

### 34. Lr1 State Network.

$\Rightarrow$	State: 1 state type: $s$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c Rfsm_phrase		2	2	1	?		1	2	2	
c Reval_phrases		1	2	1	eog		1	3	3	
c Rfsm_phrase		2	1	1	fsm-phrase		1	4	4	
c Reval_phrases		1	1	1	Rfsm_phrase <u>Rparallel_phrase<math>^e</math> RT_enum_phrase</u>		1	5	13	
$\Rightarrow  ? $	State: 2 state type: $r$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
t Rfsm_phrase		2	2	2			1	0	2	1
$\Rightarrow^{eog}$	State: 3 state type: $r$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
t Reval_phrases		1	2	2			1	0	3	2
$\Rightarrow^{fsm-phrase}$	State: 4 state type: $r$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
t Rfsm_phrase		2	1	2			1	0	4	1
$\Rightarrow^{Rfsm\_phrase}$	State: 5 state type: $s/r$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c Rparallel_phrase		3	2	1	$\epsilon$		5	0	5	3
c Rparallel_phrase		3	1	1	parallel-parser-phrase		5	14	14	
t Reval_phrases		1	1	2	Rparallel_phrase <u>RT_enum_phrase</u>		1	6	13	
$\Rightarrow^{Rparallel\_phrase}$	State: 6 state type: $s$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c RT_enum_phrase		4	2	1	?		6	15	15	
c RT_enum_phrase		4	1	1	T-enum-phrase		6	16	16	
t Reval_phrases		1	1	3	RT_enum_phrase <u>Rlr1_k_phrase</u>		1	7	13	
$\Rightarrow^{RT\_enum\_phrase}$	State: 7 state type: $s$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c Rlr1_k_phrase		7	2	1	?		7	17	17	
c Rlr1_k_phrase		7	1	1	lr1-k-phrase		7	18	18	
t Reval_phrases		1	1	4	Rlr1_k_phrase <u>Rrc_phrase</u>		1	8	13	
$\Rightarrow^{Rlr1\_k\_phrase}$	State: 8 state type: $s$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c Rrc_phrase		6	2	1	?		8	19	19	
c Rrc_phrase		6	1	1	rc-phrase		8	20	20	
t Reval_phrases		1	1	5	Rrc_phrase <u>Rterms_phrase</u>		1	9	13	
$\Rightarrow^{Rrc\_phrase}$	State: 9 state type: $s$					$\rightarrow$	Brn	Gto	Red	LA
$\leftarrow$ rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element				
c Rterms_phrase		8	2	1	?		9	21	21	
c Rterms_phrase		8	1	1	terminals-phrase		9	22	22	
t Reval_phrases		1	1	6	Rterms_phrase <u>Rerr_sym_phrase</u>		1	10	13	
$\Rightarrow^{Rterms\_phrase}$	State: 10 state type: $s$									

$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
c Rerr_sym_phrase	5 2 1  ?		10 23 23
c Rerr_sym_phrase	5 1 1 error-symbols-phrase		10 24 24
t Reval_phrases	1 1 7 Rerr_sym_phrase <u>Rrules_phrase</u>		1 11 13
$\Rightarrow^{Rerr\_sym\_phrase}$		State: 11 state type: $s$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
c Rrules_phrase	9 2 1  ?		11 25 25
c Rrules_phrase	9 1 1 rules-phrase		11 26 26
t Reval_phrases	1 1 8 Rrules_phrase <u>eog</u>		1 12 13
$\Rightarrow^{Rrules\_phrase}$		State: 12 state type: $s$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Reval_phrases	1 1 9 eog		1 13 13
$\Rightarrow^{eog}$		State: 13 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Reval_phrases	1 1 10		1 0 13 2
$\Rightarrow^{parallel-parser-phrase}$		State: 14 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rparallel_phrase	3 1 2		5 0 14 3
$\Rightarrow^{ ? }$		State: 15 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t RT_enum_phrase	4 2 2		6 0 15 4
$\Rightarrow^{T-enum-phrase}$		State: 16 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t RT_enum_phrase	4 1 2		6 0 16 4
$\Rightarrow^{ ? }$		State: 17 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rlr1_k_phrase	7 2 2		7 0 17 5
$\Rightarrow^{lr1-k-phrase}$		State: 18 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rlr1_k_phrase	7 1 2		7 0 18 5
$\Rightarrow^{ ? }$		State: 19 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rrc_phrase	6 2 2		8 0 19 6
$\Rightarrow^{rc-phrase}$		State: 20 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rrc_phrase	6 1 2		8 0 20 6
$\Rightarrow^{ ? }$		State: 21 state type: $r$	
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$\text{subrule element}$	$\rightarrow \text{Brn} \ Gto \ Red \ LA$
t Rterms_phrase	8 2 2		9 0 21 7
$\Rightarrow^{terminals-phrase}$		State: 22 state type: $r$	

$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$t \ Rterms\_phrase$	$8 \quad 1 \quad 2$	$\text{subrule element}$	$\rightarrow Brn \ Gto \ Red \ LA$
$\Rightarrow  ? $					$9 \quad 0 \quad 22 \quad 7$
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$t \ Rerr\_sym\_phrase$	$5 \quad 2 \quad 2$	$\text{subrule element}$	$\rightarrow Brn \ Gto \ Red \ LA$
$\Rightarrow error-symbols-phrase$				$\text{State: 23 state type: } r$	$10 \quad 0 \quad 23 \quad 8$
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$t \ Rerr\_sym\_phrase$	$5 \quad 1 \quad 2$	$\text{subrule element}$	$\rightarrow Brn \ Gto \ Red \ LA$
$\Rightarrow  ? $				$\text{State: 24 state type: } r$	$10 \quad 0 \quad 24 \quad 8$
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$t \ Rrules\_phrase$	$9 \quad 2 \quad 2$	$\text{subrule element}$	$\rightarrow Brn \ Gto \ Red \ LA$
$\Rightarrow rules-phrase$				$\text{State: 25 state type: } r$	$11 \quad 0 \quad 25 \quad 9$
$\leftarrow \text{rule}$	$\rightarrow R\# \ sr\# \ Po \leftarrow$	$t \ Rrules\_phrase$	$9 \quad 1 \quad 2$	$\text{subrule element}$	$\rightarrow Brn \ Gto \ Red \ LA$
$\Rightarrow$				$\text{State: 26 state type: } r$	$11 \quad 0 \quad 26 \quad 9$

### 35. Index.

$\epsilon$ : 13.  
 $|?|$ : 10, 15, 18, 21, 24, 27, 30.  
 $\text{--FILE--}$ : 6.  
 $\text{--LINE--}$ : 6.  
 $\text{add\_token\_to\_error\_queue}$ : 6.  
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```

## eval\_phrases Grammar

Date: January 2, 2015 at 15:35

File: eval\_phrases.lex

Ns: NS\_eval\_phrases

Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

Evaluate parse phrase sequencer: as i use a top / down approach to dispatching the various phrases.

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