

## Design quality report - pgSchema

### Procedure length

*Measured by logical lines of code.*

Lines of code	Procs	%	Distribution
0- 9	127	57%	*****
10- 19	67	30%	*****
20- 29	12	5%	*
30- 39	7	3%	*
40- 49	5	2%	
50- 59	1	0%	
70- 79	2	1%	
110- 119	1	0%	
130- 139	1	0%	max=133
Total	223	100%	

Average LOC 13.9 Median 8.0  
StdDev 14.6  
5%-95% range 7-37 90% of procs fall in this range

### Complexity

*Average values per procedure*

Structural fan-out 0.9  
Informational fan-in x fan-out 6.8  
Informational complexity 140.0  
Depth of looping 0.12

### Cyclomatic complexity

*Recommended cyclomatic complexity in a procedure is 1-10.*

Complexity	Procs	%
1 - 5	197	88% *****
6 - 10	16	7% *
11 - 15	5	2%
16 - 20	2	1%
26 - 30	1	0%
31 - 35	1	0%
41 - 45	1	0%
Total	223	100%

Average complexity 3.69 (cyclomatic complexity / number of procedures)  
Decision density 0.26 (cyclomatic complexity / lines of code)

Total complexity 600 (total number of decisions + 1)

### Depth of conditional nesting

*Nested conditional statements per procedure. Recommended range: 0 to 5.*

Average depth 1.3  
Max depth 6

Depth >= 5                      1 procedures (0%)

## Understandability

### Comments and whitespace

#### Distribution of logical lines

Comment lines	348	8%
Whitespace lines	903	20%
Code lines	4503	72% commentless 72%, commented 0%
Total logical lines	4503	100%

#### Commentedness

Meaningless comments	0	0%
Meaningful comments	369	100% per code line: 0.1
All comments	369	100%

*Lines with the line continuation character '\_' are counted as one logical line.  
Lines excluded by conditional compilation are not included in the logical line counts.  
A meaningful comment contains text rather than just whitespace or punctuation.*

### Meaningful comments per procedure

*(declarations) sections counted as procedures*

Comments	Procedures	% Distribution
0	67	29% *****
1-2	127	55% *****
3-5	29	12% **
6 or more	10	4% *
Total	233	100%
Average	1.7	comments

### Length of names

Name type	Characters
Variables average LENV params)	7.0 (excl. event handler and implements
Constants average LENC	17.6
Procedures average LERP procs)	7.9 (excl. event handlers and implements
Type/Enum average fields)	12.7 (incl. enum constants and type
All average LEN	8.1
Median	7.0
StdDev	4.5
Range	1-26

Length	% Distribution
1	2%

```

2          3% *
3          5% *
4-6       39% *****
7-9       19% ****
10-14     23% *****
15-19     8% **
20-       2%

```

```

Total names          600
Unique names         284
Name uniqueness ratio UNIQ    47%

```

## Reuse

*Structural fan-in = number of calling procedures.*

```

Structural fan-in      Procs      % Distribution
0-1 No reuse           193      86% *****
2-4 Slight reuse       25      11% **
5-9 Significant reuse   4        2%
10- High reuse         0        0%
Average: 0.9

```

Classes: 8

## Problems

### Dead code

	<b>Problematic</b>	<b>Total</b>	<b>%</b>
Dead procedures	211	225	94%
Removable code lines in procs	2965	3108	95%
Dead variables	9	377	2%
Dead constants	29	38	76%
Dead Types	0	1	0%
Dead Enums	0	1	0%

*Dead code counts may include exposed code.*

### Problems with declarations

	<b>Problematic</b>	<b>Total</b>	<b>%</b>
Missing variable type	5	220	1%
Excess var/const scope	8	258	3%
No var/const scope	0	258	0%
Missing ByVal/ByRef	0	157	0%
Missing function type	2	33	6%
Excess procedure scope	0	225	0%
No procedure scope	0	225	0%

### Problem statistics

```

Filter: <Default>
Problems reported          107
Lines of code              3252

```

Procedures	225
Problems / LOC	0.0
Problems / procedure	0.5

*Project Analyzer 6.2.04 (18/04/2003) pgSchema v1.5.35*