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**Unit Structure**

```
unit unitName;
interface
uses UnitA_UnitB...;
class declarations;
exports routineA_routineB...;
var Variables;
implementation
{$R *.dres}
{$R WindowsXP.res}
{$R resourceName.res}
exports routineA_routineB...;
uses UnitAA_UnitBB...;
var Variables;
Code...
[Initialization Initialization Code;]
[Finalization Finalization Code;]
end;
```

- In a form this includes one form and the `{$R *.dres}` statement below is obligatory.
- To export routines from a library with unit in its uses clause.
- Visible in all units that use the present unit
- For WindowsXP style UI effects.
- Any custom resources used.
- Visible within the unit
- Initialization/finalization code can be a procedure call. No finalization without initialization but just a blank initialization statement is enough.

**Names & Notation**

As a general rule all identifier names – i.e. names for units, controls, objects, variables, ... – must be alphanumeric or the `_` character. The first character cannot be a number.

There is no single accepted notation standard. We suggest the following:

- Hungarian style notation for control/component & interface identifiers, e.g. `btnName` for a TButton control with Name describing its function.
- `i,j,k...` for generic integer variables used as loop counters etc.
- JavaScript style descriptive camel capitalized names for all other variables, e.g. `intRate`.

Names are not case sensitive.

**Visibility, Scope & Garbage Collection**

Variables declared inside a routine are only visible within the routine – and to nested routines.

Declarations using the `var` keyword in the `interface` section of a unit are visible within the unit and whenever the unit is present in a `uses` clause.

Declarations using the `var` keyword in the `implementation` section of a unit are visible within the unit.

Objects implementing interfaces are reference counted. They are destroyed when their reference count reaches zero. All other objects and any allocated memory must be explicitly destroyed/released after use.

**Variable Types<sup>1</sup>**

Type	Size	Range
Boolean	1	false or true
Byte	1	0..255
Cardinal	4	0..4294967295
Char	1	Extended ASCII
Currency	8	±9.22E14
Double	8	±1E-324..1.7E098
Extended	10	±3.6E-495..1.1E4932
Integer	4	-2147483648..2147483647
Int64	8	-2 <sup>63</sup> ..2 <sup>63</sup> - 1
PChar	4+ <sup>2</sup>	pointer to array of char
Pointer	4	Generic Pointer
Ptr	4	# is Integer, Double, etc
PWideChar	4+ <sup>2</sup>	pointer to array of widechar
Set	32	See below <sup>2</sup>
String	4+ <sup>2</sup>	string of char
TDateTime	8	See below <sup>2</sup>
WideChar	2	Unicode Character
WideString	4+ <sup>2</sup>	string of Unicode characters
Word	2	0..65535

- Other types exist.
- 4 = length of string + 1
- 4 + 2 bytes per stored widechar
- To store bytes, chars, enumerations with < 256 members etc.
- 0 is 12:00 am, 12:00/1800. No values between -1 & 0. Fraction represents time of day, e.g. 0.25 = 9:00 am. For dates prior to 12:00/1800, add time of day to absolute value of day, e.g. -1.25 for 9:00 am 12/29/1899.
- 4 = twice length of string + 1

**Special Constants**

false, true, nil, MAXWORD, MAXINT, MAXDOUBLE, MINDOUBLE etc.

**Enumerations**

e.g. type TDelphiVersion = (dv0) = 5); dv1, dv2, dv3);  
 Enumerations can be manipulated using `inc`, `dec`, `pred` and `succ`. `ord` can be used to get their ordinal value. Prepend enumeration members with two or more lowercase letters identifying their parent enumeration.

Enumerated values require one or more depending on the number of members in the parent enumeration.

**Array Types**

Any ordinal type can be used to define an array type. e.g.

- TVersions = array[TDelphiVersions] of String;
- TLevels = array[3..30] of Integer;
- TLetters = array['a'..'z'] of Char;
- TInfo = array[Boolean,0..5] of PChar;

**Operators**

Operator	Example	Result
+	3 + 2	5
	'explain' + 'that'	explainthat
-	3 - 2	-1
*	3*2	6
/	3/2	1.5
div	3 div 2	1
mod	3 mod 2	3 - (3 div 2)*2

	i=2	Assignment
=	3 = 3 2 = 3	True False
<	3 < 4	true
<=	2 <= 3	true
>	'explain' > 'Explain'	true
>=	5 >= 4	true
<>	2 <> 3 'explain' <> 'explain'	True False
shr	1 shr 2	4
shl	2 shl 1	4
i=0; j=7		
and	(3 < 3) AND (3 >= 5) 3 AND 5	true 2
or	(3 < 3) or (3 > 7) 3 OR 7	false 7
xor	(3 < 3) XOR (3 > 5) (3 < 3) XOR (3 > 7) (3 > 2) XOR (3 > 7) 3 XOR 5	true false false 5
not	(3 < 3) AND NOT(3 > 7) not(0)	true -3
s1 = [1..3]; s2 = [5..7]		
=	s1 = s2	[1..7]
-	s1 - s2 s2 - s1	[1..2] [4..7]
*	s1*s2	[0]
s1 = [1..3]; s2 = [1..2]; s3 = [1..7]		
=	s1 = s3	true
>=	s2 >= s2	true
=	s1 = s2	true
<>	s1 <> s2	false
in	4 in s1 5 in s3	False true
exclude	exclude(s1,3)	[1..2]
include	include(s1,3)	[1..3]

**Conversion from Strings<sup>2</sup>**

- StrToCur(Def's.def) – s to currency, def on error.
- StrToInt(Def's.def) – s to integer, def on error.
- StrToFloat(Def's.def) – s to real, def on error.
- StrToDate(Def's.def) – s to date/time, def on error.
- StrToDateTime(Def's.def) – s converted to number & stored in V. Code = 0 indicates position in s of first error.

**Conversions to Strings<sup>2</sup>**

- FloatToStr(value) – value as a string.
- Format(pfmt,[arg1;arg2;...])<sup>3</sup> – uses pfmt to build a string. %d, %f etc in pattern are replaced by values in args.
- FormatDate(pfmt,date:tdatetime) – returns date/time as string formatted using pfmt. If pfmt is empty uses short date format.
- FormatReal(pfmt,value) – returns value as string formatted using pfmt.
- IntToHex(value,N) – value in hexadecimal with N digits.
- IntToStr(value) – value as a string.

**Date & Time Routines<sup>2</sup>**

- Date – current date, time fraction set to zero.
- DateTimeToStr(d) – d to string using locale.
- DecodeDate(Date,Y,M,D) – year, month & days; YMD
- DecodeTime(Date,H,M,S,N) – hrs, mins, s & ms to H:MM:SS
- EncodeDate(Y,M,D) – returns date-time value.
- EncodeTime(H,M,S,N) – returns time fraction of date-time.
- FormatDateTime(Format,Date) – returns formatted date string.

# Delphi Reference Guide

**Didier Musso**



## **Delphi Reference Guide:**

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