

Comments-abridged

Comments Abridged – Major Variables

```
Attribute VB_Name = "Comments"
```

```
Option Explicit
```

```
Public Sub Variables()
```

```
'Names and contents of variables
```

```
'CurUnits(16) as Integer
```

```
'current units for the active model
```

```
'NB for Version 6.5 CurUnits is no longer Global
```

```
' it is re-dimensioned and refilled during
```

```
' the appropriate FileOps.Bas procedure
```

```
' CurUnits(0) = Empty
```

```
' CurUnits(1) = CountSys
```

```
' CurUnits(2) = FabTyp
```

```
' CurUnits(3) = ProcTyp
```

```
' CurUnits(4) = TiUnit
```

```
' CurUnits(5) = Shade
```

```
' CurUnits(6) = CrsUnit
```

```
' CurUnits(7) = WtUnit
```

```
' CurUnits(8) = WidUnit
```

```
' CurUnits(9) = TarUnit
```

```
' CurUnits(10) = YldUnit
```

```
' CurUnits(11) = YarnTyp
```

```
' CurUnits(12) = NumMachs
```

```
'new for Version 6.1
```

```
' CurUnits(13) = TfUnit
```

```
' CurUnits(14) = CurShift
```

```
'new for Version 6.5
```

```
' CurUnits(15) = RibSetOut index (0 = Swiss, 1 = English)
```

```
' CurUnits(16) = CurTrim
```

```
End Sub
```

```
Private Sub PropsAndCalProps()
```

```
'Props(30, 10, 10)
```

```
'Props(Property, Quality, Machine)
```

```
' This was the original Version 5 properties array
```

```
' Contains all of the properties for the active model
```

```
' for all nine qualities on all nine machines
```

```
' Qualities and Machines are numbered 1 to 9
```

```
' Machine zero was used as a temporary store for
```

```
' the data in the edit boxes on frmByYarns and frmBody
```

Comments-abridged

' The old forms are now defunct but many of the properties
' are retained
' All units are User units unless otherwise indicated
' Knit means as knitted
' Del means as delivered
' Ref means Reference state
' Run-in ratio for crosstuck is K&T / All knit
' Inlay TF = Machine Gauge * SL in inches

' CalProps(30, 2)

' CalProps is a copy of Props, for the current Quality and Machine
' but with the properties modified
' according to the current calibration
' NB there was never any need to have two dimensions
' original plan was to store more information
' but this never materialised (or was abandoned)

Index	Version 5 & 6.0	Changes for V 6.1/6.5
0	Empty	Empty
1	Needles	Empty
2	Courses, Del	Empty
3	Wales, Del	Empty
4	Weight, Del	Empty
5	Width, Del	Empty
6	Yield, Del	Empty
7	Length shrinkage	Empty
8	Width shrinkage	Empty
9	Stitch length, Knit	Empty
10	Course length, Knit	Empty
11	Tightness factor, Knit	Empty
12	St.Len, Yarn2, Knit	Empty
13	C. Len, Yarn2, Knit	Empty
14	Run-in ratio/InlayCount, Knit	Empty
15	Courses, Ref	
16	Wales, Ref	
17	Weight, Ref	
18	Width, Ref	
19	Courses / cm, Del	
20	Face count, Knit	Empty
21	Fin, Ref YarnCount1, Knit	
22	Fin, Ref, Yarn1 SL	
23	Fin, Ref, YarnCount2	
24	Fin, Ref, SL, Yarn2	
25	Fin, Ref, Eff.Tex(courses)	
26	Fin, Ref, Eff.Tex(wales)	
27	Fin, Del, YarnCount1	
28	Fin, Del, YarnCount2	
29	Inlay TF, Knit	
30	Empty	

Comments-abridged

'In addition, CalProps(0, 0) contained a flag (0 or 1)
' indicating whether a calibration had been made

'For Version 6.1 and 6.5, Props and CalProps were partly replaced by
' Qualspec & FinFab and CalQualSpec & CalFinFab

'August 16, 1999
'In Version 6.5 CalProps, CalQualSpec and CalFinFab
' have only one dimension
' and Calprops(0) has been replaced by a new Boolean variable
' called CalibrationMade

End Sub

Private Sub Prod()

'Prod(30, 10, 10)
'Prod(Property, Quality, Machine)
' This was the original Version 5 production data array
' Contains all of the production data for the active model
' for all nine qualities on all nine machines
' Qualities and Machines are numbered 1 to 9
' Rows 1 to 9 contain values that can be altered
' by the user
' Rows 10 to 15 contain values that are displayed on frmProd
' but can not be altered by the user
' Remaining rows contain values that are needed
' for making calculations
' All units are User units unless otherwise indicated
' Only items 1 to 9 are saved in models but
' there is a lot of empty space in this array
,
' Index Version 5 & 6.0
,
' 0 Empty
' 1 rpm
' 2 speed factor
' 3 feeders
' 4 Efficiency
' 5 roll weight
' 6 time per roll
' 7 number of rolls
' 8 yarn lot weight
' 9 knitting waste

' 10 production rate
' 11 revs per roll
' 12 weight per shift
' 13 finished piece weight
' 14 finished piece length
' 15 finished lot weight

Comments-abridged

```
' 16 Empty
' 17 Empty
' 18 course weight, grey
' 19 K&T course weight, grey
' 20 Inlay course weight, grey
' 21 Reserved for tie yarn course weight
' 22 Ground yarn weight share
' 23 Inlay yarn weight share
' 24 Reserved for tie yarn weight share
' 25 Empty
' 26 Empty
' 27 Empty
' 28 Empty
' 29 Empty
' 30 Empty

'July 9, 1999
' redesign of frmProd, with parts of the data moved to
' two new arrays, ProdInputs() and ProdOutputs()

' Whatever data is not moved into these new arrays
' continues to be maintained in Prod() pro tem

' ProdInputs(10, 10, 10)
' ProdInputs(Input, Quality, Machine)
',
' Index Version 6.1
',
' 0 Empty
' 1 rpm
' 2 speed factor
' 3 feeders
' 4 Efficiency
' 5 roll weight
' 6 number of rolls
' 7 yarn lot weight
' 8 knitting waste
' 6 Empty

' ProdOutputs(10, 10, 10)
' ProdOutputs(Output, Quality, Machine)
',
' Index Version 6.1
',
' 0 Empty
' 1 production rate
' 2 revs per roll
' 3 time per roll
```

Comments-abridged

```
' 4 weight per shift
' 5 finished piece weight
' 6 finished piece length
' 7 finished lot weight
' 8 Empty
' 9 Empty
```

End Sub

Private Sub QualSpec()

```
'QualSpec(10, 10, 10)
'QualSpec(Property, Quality, Machine)
' Contains the quality specification for the active model
' for all nine qualities on all nine machines
' Qualities and Machines are numbered 1 to 9
' Row zero is used as a temporary store for
' the data in the edit boxes on frmByQuals and frmByMachs
' All property data values are in user units
',
' Index Property
',
' 0 Needles
' 1 Yarn count
' 2 Stitch length
' 3 Course length
' 4 Tightness factor
' 5 Yarn 2 Count
' 6 Yarn 2 Stitch length
' 7 Yarn 2 Course length
' 8 Yarn 2 Tightness factor / Run-in ratio
' 9 Empty
' 10 Empty
```

End Sub

Private Sub FinFab()

```
'FinFab(10, 10, 10)
'FinFab(Property, Quality, Machine)
' Contains the finished as-delivered fabric properties for the active model
' for all nine qualities on all nine machines
' Qualities and Machines are numbered 1 to 9
' Row zero is used as a temporary store for
' the data in the edit boxes on frmByQuals and frmByMachs
' All property data values are in user units
',
' Index Property
',
' 0 Empty
' 1 Courses
```

Comments-abridged

```
' 2      Wales
' 3      Weight
' 4      Width
' 5      Yield
' 6      Length shrinkage
' 7      Width shrinkage
' 8      Empty
' 9      Empty
' 10     Empty
```

End Sub

Private Sub P()

'P(55)

'output of the Starfish Engine

Index	Property	Fabric State	Units
1	Yarn count	As knitted	tex
2	Yarn count	Fin. Ref.	tex
3	Stitch length	As knitted	cm
4	Stitch length	Fin. Ref.	cm
5	Tightness factor	As knitted	cgs
6	Tightness factor	Fin. Ref.	cgs
7	Courses	Fin. Ref.	/cm
8	Wales	Fin. Ref.	/cm
9	Weight	Fin. Ref.	gsm
10	Width	Fin. Ref.	cm open
11	Courses	As Del.	/cm
12	Wales	As Del.	/cm
13	Weight	As Del.	gsm
14	Width	As Del.	cm open
15	Yarn count	Fin. Ref.	User
16	Stitch length	Fin. Ref.	User
17	Courses	As Del.	User
18	Wales	As Del.	User
19	Weight	As Del.	User
20	Width	As Del.	User
21	Length Shrinkage	As Del.	%
22	Width Shrinkage	As Del.	%
23	Yarn count	As knitted	User
24	Stitch length	As knitted	User
25	Course Length	As knitted	User
26	Inlay count	As knitted	tex

		Comments-abridged	
'	27	Inlay SL	As knitted cm
'	28	Eff. Inlay TF	As knitted cgs
'	29	Inlay count	Fin. Ref. tex
'	30	Inlay SL	Fin. Ref. cm
'	31	Eff. Inlay TF	Fin. Ref. cgs
'	32	Inlay count	As knitted User
'	33	Inlay SL	As knitted User
'	34	Inlay CL	As knitted User
'	35	Eff count (old def)	As knitted tex
'	36	Eff count (wales)	Fin. Ref. tex
'	37	Inlay count	Fin. Ref. User
'	38	Inlay SL	Fin. Ref. User
'	39	Eff count (courses)	Fin. Ref. tex
'	40	Yarn2 count	As knitted tex
'	41	Yarn2 SL	As knitted cm
'	42	Yarn2 TF	As knitted cgs
'	43	Yarn2 count	Fin. Ref. tex
'	44	Yarn2 SL	Fin. Ref. cm
'	45	Yarn2 TF	Fin. Ref. cgs
'	46	Yarn2 count	As knitted User
'	47	Yarn2 SL	As knitted User
'	48	Yarn2 TF	As knitted User
'	49	Yarn2 count	Fin. Ref. User
'	50	Yarn2 SL	Fin. Ref. User
'	51	Yield (weight)	Fin. Ref. gsm
'	52	Yield (weight)	As Del. gsm
'	53	Yield	As Del. User
'	54	RunRat	

End Sub

Private Sub CountVals_Changes()

'CountVals(8, 10, 10) As Single

'CountVals(FabTyp, CurQual, CurMach)

' Contains the yarn count and stitch length values
 ' for all fabric types, qualities and machines
 ' Global CurQual is the currently selected quality
 ' Global CurMach is the currently selected machine
 '

Comments-abridged

' Block (FabTyp, CurQual, 0) contains
' the yarn count values
' NB all yarn count values are in tex

' Position (FabTyp, 0, 0) contains
' the number of Qualities for that FabTyp

' Positions (FabTyp, CurQual, CurMach) contain
' the stitch length values for that machine
' NB all SL values are in cm

' At present, there are 7 fabric types
' rows 0 to 6 are used for the face yarn values
' for these 7 fabric types

' For crosstuck fabrics having an all-knit course
' ie FabTyp = 4 or FabTyp = 5
' ie FabTyp = FabSxt or FabTyp = FabXt6
' the SL values refer to all-knit
' K&T SL values are calculated using the run-in ratio

' Row 7 contains the inlay count and SL values
' for two-thread fleece (Fabtyp = 6)

' July 1999

' CountVals(FabTyp, Quality, Machine) has been replaced by two arrays
' CurTexVals(5, 10) and CurSLcmVals(5, 10, 10)

- ' 1. It is not necessary to retain (and file)
' the yarn count and stitch length data for every fabric type
' constantly in memory. Only the current FabTyp is required
- ' 2. Use of the one array to store both tex and SL
' is confusing when reading & editing the code

' CurTexVals(Yarn, Quality)
' contains the yarn tex values for the current fabric type
' It is over-dimensioned for current requirements
' The Yarn slot is used for when there is more than one
' yarn count in a fabric (e.g. two-thread fleece)

' CurTexVals(1, 0) stores the number of Qualities
' CurTexVals(1, Qual) stores tex values for the FACE yarn
' CurTexVals(2, Qual) stores tex values for the YARN 2
' CurTexVals(3, Qual) stores tex values for the INLAY yarn

' CurSLcmVals(Yarn, Quality, Machine)
' contains the Stitch length (cm) values for the current fabric type
' It is over-dimensioned for current requirements
' The Yarn slot is used for when there is more than one
' yarn/stitch length in a fabric (e.g. two-thread fleece)

Comments-abridged

```
' CurSLcmVals(1, Qual, Mach) stores SL values for the FACE yarn  
' CurSLcmVals(2, Qual, Mach) stores SL values for the YARN 2  
' CurSLcmVals(3, Qual, Mach) stores SL values for the INLAY yarn
```

End Sub