

Objects:

mode	adr	conval	link	scope	leaf	
Undef						Not used
Var	vadr		next		regopt	Glob or loc var or proc value parameter
VarPar	vadr		next		regopt	Var parameter (vis = 0   inPar   outPar)
Con		val				Constant
Fld	off		next			Record field
Typ						Named type
LProc	entry	sizes	firstpar	scope	leaf	Local procedure, entry adr set in back-end
XProc	entry	sizes	firstpar	scope	leaf	External procedure, entry adr set in back-end
SProc	fno	sizes				Standard procedure
CProc		code	firstpar	scope		Code procedure
IProc	entry	sizes		scope	leaf	Interrupt procedure, entry adr set in back-end
Mod				scope		Module
Head	txtpos		owner	firstvar		Scope anchor
TProc	entry	sizes	firstpar	scope	leaf	Bound procedure, mthno = obj.num

Nodes :

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design    = Nvar|Nvarpar|Nfield|Nderef|Nindex|Nguard|Neguard|Ntype|Nproc.
expr     = design|Nconst|Nupto|Nmop|Ndot|Ncall.
nextexpr = NIL|expr.
ifstat   = NIL|Nif.
casestat = Ncaselse.
sglcase  = NIL|Ncasedo.
stat     = NIL|Ninitd|Nenter|Nassign|Ncall|Nifelse|Ncase|Nwhile|Nrepeat|
          Nloop|Nexit|Nreturn|Nwith|Ntrap.

```

	class	subcl	obj	left	right	link
design	Nvar		var			nextexpr
	Nvarpar		varpar			nextexpr
	Nfield		field	design		nextexpr
	Nderef	ptr/str		design		nextexpr
	Nindex			design	expr	nextexpr
	Nguard			design		nextexpr (typ = guard type)
	Nguard					nextexpr (typ = guard type)
	Ntype		type			nextexpr
	Nproc	normal	proc			nextexpr
		super	proc			nextexpr
expr	design					
	Nconst		const			(val = node.conval)
	Nupto			expr	expr	nextexpr
	Nmop	not		expr		nextexpr
		minus		expr		nextexpr
		is	tsttype	expr		nextexpr
		conv		expr		nextexpr
		abs		expr		nextexpr
		cap		expr		nextexpr
		odd		expr		nextexpr
		bit		expr		nextexpr {x}
		adr		expr		nextexpr SYSTEM.ADR
		typ		expr		nextexpr SYSTEM.TYP
		cc		Nconst		nextexpr SYSTEM.CC
		val		expr		nextexpr SYSTEM.VAL
	Ndop	times		expr	expr	nextexpr
		slash		expr	expr	nextexpr
		div		expr	expr	nextexpr
		mod		expr	expr	nextexpr
		and		expr	expr	nextexpr
		plus		expr	expr	nextexpr
		minus		expr	expr	nextexpr
		or		expr	expr	nextexpr
		eql		expr	expr	nextexpr
		neq		expr	expr	nextexpr
		lss		expr	expr	nextexpr
		leq		expr	expr	nextexpr
		grt		expr	expr	nextexpr
		geq		expr	expr	nextexpr
		in		expr	expr	nextexpr
		ash		expr	expr	nextexpr
		msk		expr	Nconst	nextexpr
		len		design	Nconst	nextexpr
		min		expr		nextexpr MIN
		max		expr		nextexpr MAX
		bit		expr	expr	nextexpr SYSTEM.BIT
		lsh		expr	expr	nextexpr SYSTEM.LSH
		rot		expr	expr	nextexpr SYSTEM.ROT
	Ncall		fpar	design	nextexpr	nextexpr
	Ncomp			stat	expr	nextexpr

### Structures:

form	comp	n	BaseTyp	link	mno	txtpos	sysflag
Undef	Basic						
Byte	Basic						
Bool	Basic						
Char8	Basic						
Int8	Basic						
Int16	Basic						
Int32	Basic						
Real32	Basic						
Real64	Basic						
Set	Basic						
String8	Basic						
NilTyp	Basic						
NoTyp	Basic						
Pointer	Basic		PBaseTyp		mno	txtpos	sysflag
ProcTyp	Basic		ResTyp	params	mno	txtpos	sysflag
Comp	Array	nofel	ElemTyp		mno	txtpos	sysflag
Comp	DynArr	dim	ElemTyp		mno	txtpos	sysflag
Comp	Record	nofmth	RBaseTyp	fields	mno	txtpos	sysflag
Char16	Basic						
String16	Basic						
Int64	Basic						

	class	subcl	obj	left	right	link	
nextexpr	NIL						
ifstat	NIL			expr	stat	ifstat	
casestat	Ncase	else		sglcase	stat		(minmax = node.conval)
sglcase	NIL	Ncase		Nconst	stat	sglcase	
stat	NIL						
	Ninit					stat	(of node.typ)
	Nenter		proc	stat	stat	stat	(proc=NIL for mod)
	Nassign	assign		design	expr	stat	
		newfn		design	nextexp	stat	
		incfn		design	expr	stat	
		decfn		design	expr	stat	
		inclfn		design	expr	stat	
		exclfn		design	expr	stat	
		copyfn		design	expr	stat	
		getfn		design	expr	stat	SYSTEM.GET
		putfn		expr	expr	stat	SYSTEM.PUT
		getrfn		design	Nconst	stat	SYSTEM.GETREG
		putrfn		Nconst	expr	stat	SYSTEM.PUTREG
		sysnewfn		design	expr	stat	SYSTEM.NEW
		movefn		expr	expr	stat	SYSTEM.MOVE
							(right.link = 3rd par)
	Ncall		fpar	design	nextexpr	stat	
	Nifelse			ifstat	stat	stat	
	Ncase			expr	casestat	stat	
	Nwhile			expr	stat	stat	
	Nrepeat			stat	expr	stat	
	Nloop			stat		stat	
	Nexit					stat	
	Nreturn		proc	nextexpr		stat	(proc = NIL for mod)
	Nwith			ifstat	stat	stat	
	Ntrap				expr	stat	
	Ncomp			stat	stat	stat	