

No.	Production	Semantic rule
1	$\downarrow_{in} \text{struct}_0 := \downarrow_{in} \text{innerstruct}_2$	$x(1)=0$ width(0) = width(2) $y(1)=0$ height(0)= height(2) $x(2)=x(1)$ $y(2)=y(1)$
2	$\downarrow_{in} \text{innerstruct}_0 := \downarrow_{in,ov} \text{head}_1 \downarrow_{in,ov} \text{body}_2$	$x(1)=x(0) + Mleft$ width(0) = $y(1)=y(0) + Mtop$ max(width(1),width(2)) $x(2)=x(1) + Mleft$ height(0)= $y(2)=y(1)$ height(1)+height(2) +height(1)+Mcen +Mtop+Mcen+Mbottom
H1	$\downarrow_{in,ov} \text{head}_0 := \downarrow_{in,ov} \text{HEAD}_1 \downarrow_{in} \text{head root}_2$	$x(1)=0$ width(0) = width(2) $y(1)=0$ +Hleft+Hright height(0)=height(2) $x(2)=x(1) + Hleft$ +HMtop+HMbottom $y(2)=y(1) + Hmtop$
H2	$\downarrow_{in,ov} \text{head root}_0 := \downarrow_{in,ov} \text{head row}_1 \downarrow_{in,ov} \text{head root}_2$	$x(1)=x(0)$ width(0) = $y(1)=y(0)$ max(width(1),width(2)) $x(2)=x(1)$ height(0)= $y(2)=y(1)$ height(1)+height(2) +height(1)+HSv +HSv
H3	$\downarrow_{in,ov} \text{head root}_0 := \downarrow_{in,ov} \text{head row}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
H4	$\downarrow_{in,ov} \text{head row}_0 := \downarrow_{in,ov} \text{head column}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
H5	$\downarrow_{in,ov,if} \text{head column}_0 := \downarrow_{in,ov,if} \text{head scalar}_1 \downarrow_{in,ov,if} \text{head column}_2$	$x(1)=x(0)$ width(0) = $y(1)=y(0)$ width(1)+width(2)+HSh $x(2)=x(1)$ height(0)= + width(1) + HSh max(height(1),height(2)) $y(2)=y(1)$
H6	$\downarrow_{in,ov,if} \text{head column}_0 := \downarrow_{in,ov,if} \text{head scalar}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
H7	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Program Name}$	$x(1)=x(0)$ width(0) = WIDTH_pname $y(1)=y(0)$ height(0)= HEIGHT_pname
H8	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Subtitle}$	$x(1)=x(0)$ width(0) = WIDTH_stitle $y(1)=y(0)$ height(0)= HEIGHT_stitle
H9	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Library Code}$	$x(1)=x(0)$ width(0) = WIDTH_lcode $y(1)=y(0)$ height(0)= HEIGHT_lcode
H10	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Version}$	$x(1)=x(0)$ width(0) = WIDTH_version $y(1)=y(0)$ height(0)= HEIGHT_version
H11	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Author}$	$x(1)=x(0)$ width(0) = WIDTH_author $y(1)=y(0)$ height(0)= HEIGHT_author
H12	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Approver}$	$x(1)=x(0)$ width(0) = WIDTH_approver $y(1)=y(0)$ height(0)= HEIGHT_approver
H13	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Original Release}$	$x(1)=x(0)$ width(0) = WIDTH_orelease $y(1)=y(0)$ height(0)= HEIGHT_orelease
H14	$\downarrow_{in,ov,if} \text{head scalar}_0 := \text{Current Release}$	$x(1)=x(0)$ width(0) = WIDTH_release $y(1)=y(0)$ height(0)= HEIGHT_release

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A1-0	$\downarrow_{in,ov} \text{body}_0 := \downarrow_{in,ov} \text{a1}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
A1-1	$\downarrow_{in,ov} \text{a1}_0 := \downarrow_{in,ov} \text{a1 root}_2$	$x(1)=0$ width(0) = width(2) $y(1)=0$ +A1Mleft+A1Mright height(0)=height(2) +A1Mtop+A1Mbottom $x(2)=x(1)+A1Mleft$ $y(2)=y(1)+A1Mtop$
A1-2	$\downarrow_{in,ov} \text{a1 root}_0 := \downarrow_{in,ov} \text{a1 row}_1 \downarrow_{in,ov} \text{a1 root}_2$	$x(1)=x(0)$ width(0) = $y(1)=y(0)$ max(width(1),width(2)) $x(2)=x(1)$ height(0)= $y(2)=y(1)$ height(1)+height(2) + height(1) + A1Sv +A1Sv
A1-3	$\downarrow_{in,ov} \text{a1 root}_0 := \downarrow_{in,ov} \text{a1 row}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
A1-4	$\downarrow_{in,ov} \text{a1 row}_0 := \downarrow_{in,ov} \text{a1 column}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
A1-5	$\downarrow_{in,ov,if} \text{a1 column}_0 := \downarrow_{in,ov,if} \text{a1 scalar}_1 \downarrow_{in,ov,if} \text{a1 column}_2$	$x(1)=x(0)$ width(0) = $y(1)=y(0)$ width(1)+width(2)+A1Sh $x(2)=x(1)$ height(0)= +width(1)+A1Sh max(height(1),height(2)) $y(2)=y(1)$
A1-6	$\downarrow_{in,ov,if} \text{a1 column}_0 := \downarrow_{in,ov,if} \text{a1 scalar}_1$	$x(1)=x(0)$ width(0) = width(1) $y(1)=y(0)$ height(0)= height(1)
A1-7	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Key Words}$	$x(1)=x(0)$ width(0) = WIDTH_keyword $y(1)=y(0)$ height(0)= HEIGHT_keyword
A1-8	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{CR Code}$	$x(1)=x(0)$ width(0) = WIDTH_crcode $y(1)=y(0)$ height(0)= HEIGHT_crcode
A1-9	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Scope}$	$x(1)=x(0)$ width(0) = WIDTH_scope $y(1)=y(0)$ height(0)= HEIGHT_scope
A1-10	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Variant}$	$x(1)=x(0)$ width(0) = WIDTH_variant $y(1)=y(0)$ height(0)= HEIGHT_variant
A1-11	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Language}$	$x(1)=x(0)$ width(0) = WIDTH_language $y(1)=y(0)$ height(0)= HEIGHT_language
A1-12	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Operation}$	$x(1)=x(0)$ width(0) = WIDTH_operarion $y(1)=y(0)$ height(0)= HEIGHT_operarion
A1-13	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Software Req.}$	$x(1)=x(0)$ width(0) = WIDTH_softreq $y(1)=y(0)$ height(0)= HEIGHT_softreq
A1-14	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Hardware Req.}$	$x(1)=x(0)$ width(0) = WIDTH_hardreq $y(1)=y(0)$ height(0)= HEIGHT_hardreq
A1-15	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{References}$	$x(1)=x(0)$ width(0) = WIDTH_reference $y(1)=y(0)$ height(0)= HEIGHT_reference
A1-16	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Function}$	$x(1)=x(0)$ width(0) = WIDTH_function $y(1)=y(0)$ height(0)= HEIGHT_function
A1-17	$\downarrow_{in,ov,if} \text{a1 scalar}_0 := \text{Example}$	$x(1)=x(0)$ width(0) = WIDTH_example $y(1)=y(0)$ height(0)= HEIGHT_example

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A2-0	$\begin{array}{c} \downarrow \\ \text{body} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2} \\ \downarrow \\ \text{in} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A2-1	$\begin{array}{c} \downarrow \\ \text{a2} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a1 row} \\ \downarrow \\ \text{in} \end{array} ]_2$	$x(1)=0$ $y(1)=0$ $x(2)=x(1)+A2Mleft$ $y(2)=y(1)+A2Mtop$ $width(0) = width(2)$ $+A2Mleft+A2Mright$ $height(0)=height(2)$ $+A2Mtop+A2Mbottom$
A2-2	$\begin{array}{c} \downarrow \\ \text{a2 root} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2 row} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a2 root} \\ \downarrow \\ \text{in} \end{array} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+ height(1) + A2Sv$ $width(0) = \max(width(1),width(2))$ $height(0)= height(1)+height(2)$ $+ A2Sv$
A2-3	$\begin{array}{c} \downarrow \\ \text{a2 root} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2 row} \\ \downarrow \\ \text{in} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A2-4	$\begin{array}{c} \downarrow \\ \text{a2 row} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A2-5	$\begin{array}{c} \downarrow \\ \text{a1} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a2 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+width(1)+A2Sh$ $width(0) = width(1)+width(2)+A2Sh$ $height(0)= \max(height(1),height(2))$
A2-6	$\begin{array}{c} \downarrow \\ \text{a2 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A2-7	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{History} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_hystory$ $height(0)= HEIGHT\_hystory$
A2-8	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Responsibility} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_respons$ $height(0)= HEIGHT\_respons$
A2-9	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Data Prt. \& Scr.} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_dpc$ $height(0)= HEIGHT\_dpc$
A2-10	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Ope. Con. Inst.} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_opeci$ $height(0)= HEIGHT\_opeci$
A2-11	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Ope. Message} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_opem$ $height(0)= HEIGHT\_opem$
A2-12	$\begin{array}{c} \downarrow \\ \text{a2 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Instal. \& Support} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_instsupp$ $height(0)= HEIGHT\_instsupp$

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A3-0	$\begin{array}{c} \downarrow \\ \text{body} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3} \\ \downarrow \\ \text{in} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A3-1	$\begin{array}{c} \downarrow \\ \text{a3} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a3 row} \\ \downarrow \\ \text{in} \end{array} ]_2$	$x(1)=0$ $y(1)=0$ $x(2)=x(1)+A3Mleft$ $y(2)=y(1)+A3Mtop$ $width(0) = width(2)$ $+A3Mleft+A3Mright$ $height(0)=height(2)$ $+A3Mtop+A3Mbottom$
A3-2	$\begin{array}{c} \downarrow \\ \text{a3 root} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3 row} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a3 root} \\ \downarrow \\ \text{in} \end{array} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+ height(1) + A3Sv$ $width(0) = \max(width(1),width(2))$ $height(0)= height(1)+height(2)$ $+ A3Sv$
A3-3	$\begin{array}{c} \downarrow \\ \text{a3 root} \\ \downarrow \\ \text{in} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3 row} \\ \downarrow \\ \text{in} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A3-4	$\begin{array}{c} \downarrow \\ \text{a3 row} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A3-5	$\begin{array}{c} \downarrow \\ \text{a3} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov} \end{array} ]_1 [ \begin{array}{c} \downarrow \\ \text{a3 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+width(1)+A3Sh$ $width(0) = width(1)+width(2)+A3Sh$ $height(0)= \max(height(1),height(2))$
A3-6	$\begin{array}{c} \downarrow \\ \text{a3 column} \\ \downarrow \\ \text{in,ov} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A3-7	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Legal Conditions} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_legalcond$ $height(0)= HEIGHT\_legalcond$
A3-8	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Price} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_price$ $height(0)= HEIGHT\_price$
A3-9	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Installation} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_inst$ $height(0)= HEIGHT\_inst$
A3-10	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Training} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_training$ $height(0)= HEIGHT\_training$
A3-11	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Maintenance} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_maint$ $height(0)= HEIGHT\_maint$
A3-12	$\begin{array}{c} \downarrow \\ \text{a3 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_0 := \begin{array}{c} \downarrow \\ \text{Quality Assurance} \\ \downarrow \\ \text{in,ov,lf} \end{array} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH\_qassur$ $height(0)= HEIGHT\_qassur$

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A4-0	$\begin{matrix} \downarrow \\ \text{body} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4} \\ \downarrow \\ \text{in} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A4-1	$\begin{matrix} \downarrow \\ \text{a4} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{A4} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a4 root} \\ \downarrow \\ \text{in} \end{matrix} ]_2$	$x(1)=0$ $y(1)=0$ $x(2)=x(1)+A4Mleft$ $y(2)=y(1)+A4Mtop$ $width(0) = width(2)$ $height(0)=height(2)$ $+A4Mleft+A4Mright$ $+A4Mtop+A4Mbottom$
A4-2	$\begin{matrix} \downarrow \\ \text{a4 root} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4 row} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a4 root} \\ \downarrow \\ \text{in} \end{matrix} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+ height(1) + A4Sv$ $width(0) = \max(width(1),width(2))$ $height(0)= height(1)+height(2)$ $+A4Sv$
A4-3	$\begin{matrix} \downarrow \\ \text{a4 root} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4 row} \\ \downarrow \\ \text{in} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A4-4	$\begin{matrix} \downarrow \\ \text{a4 row} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A4-5	$\begin{matrix} \downarrow \\ \text{a4 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a4 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $width(0) = width(1)+width(2)+A4Sh$ $height(0)= +width(1)+A4Sh$ $\max(height(1),height(2))$
A4-6	$\begin{matrix} \downarrow \\ \text{a4 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A4-7	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Identifier Name} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_idname$ $height(0)= HEIGHT_idname$
A4-8	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Identifier Category} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_idcategory$ $height(0)= HEIGHT_idcategory$
A4-9	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Purpose} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_purpose$ $height(0)= HEIGHT_purpose$
A4-10	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Value / Range} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_valuerange$ $height(0)= HEIGHT_valuerange$
A4-11	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Unit} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_unit$ $height(0)= HEIGHT_unit$
A4-12	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Rest.} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_rest$ $height(0)= HEIGHT_rest$
A4-13	$\begin{matrix} \downarrow \\ \text{a4 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Ref.} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_ref$ $height(0)= HEIGHT_ref$

No.	Production	Semantic rule
A5-0	$\begin{matrix} \downarrow \\ \text{body} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5} \\ \downarrow \\ \text{in} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A5-1	$\begin{matrix} \downarrow \\ \text{a5} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{A5} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a5 root} \\ \downarrow \\ \text{in} \end{matrix} ]_2$	$x(1)=0$ $y(1)=0$ $x(2)=x(1)+A5Mleft$ $y(2)=y(1)+A5Mtop$ $width(0) = width(2)$ $height(0)=height(2)$ $+A5Mleft+A5Mright$ $+A5Mtop+A5Mbottom$
A5-2	$\begin{matrix} \downarrow \\ \text{a5 root} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5 row} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a5 root} \\ \downarrow \\ \text{in} \end{matrix} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $+ height(1) + A5Sv$ $width(0) = \max(width(1),width(2))$ $height(0)= height(1)+height(2)$ $+A5Sv$
A5-3	$\begin{matrix} \downarrow \\ \text{a5 root} \\ \downarrow \\ \text{in} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5 row} \\ \downarrow \\ \text{in} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A5-4	$\begin{matrix} \downarrow \\ \text{a5 row} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A5-5	$\begin{matrix} \downarrow \\ \text{a5 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5 scalar} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1 \begin{matrix} \downarrow \\ \text{a5 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_2$	$x(1)=x(0)$ $y(1)=y(0)$ $x(2)=x(1)$ $y(2)=y(1)$ $width(0) = width(1)+width(2)+A5Sh$ $height(0)= +width(1)+A5Sh$ $\max(height(1),height(2))$
A5-6	$\begin{matrix} \downarrow \\ \text{a5 column} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{a5 scalar} \\ \downarrow \\ \text{in,ov} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = width(1)$ $height(0)= height(1)$
A5-7	$\begin{matrix} \downarrow \\ \text{a5 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Prob. Descript.} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_pdescript.$ $height(0)= HEIGHT_pdescript$
A5-8	$\begin{matrix} \downarrow \\ \text{a5 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Prob. Suppl. Info.} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_psupplinfo$ $height(0)= HEIGHT_psupplinfo$
A5-9	$\begin{matrix} \downarrow \\ \text{a5 scalar} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_0 := \begin{matrix} \downarrow \\ \text{Prob. Solution} \\ \downarrow \\ \text{in,ov,lf} \end{matrix} ]_1$	$x(1)=x(0)$ $y(1)=y(0)$ $width(0) = WIDTH_psolution$ $height(0)= HEIGHT_psolution$



No.	Production	Semantic rule
B2-0	$\begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} [b \text{ body} ]_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} [b2 ]_1$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
B2-1	$\begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 ]_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} [B2 ]_1 \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} [b2 \text{ root} ]_2$	$x(1)=0$ $width(0) = width(2)$ $y(1)=0$ $+B2Mleft+B2Mright$ $x(2)=x(1)+B2Mleft$ $height(0)=height(2)$ $y(2)=y(1)+B2Mtop$ $+B2Mtop+B2Mbottom$
B2-2	$\begin{matrix} \downarrow \\ \text{in} \end{matrix} [b2 \text{ root} ]_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ row} ]_1$ $\begin{matrix} \downarrow \\ \text{in} \end{matrix} [b2 \text{ root} ]_2$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $\max(width(1),width(2))$ $x(2)=x(1)$ $height(0)=$ $y(2)=y(1)$ $height(1)+height(2)$ $+ height(1) + B2Sv$ $+B2Sv$
B2-3	$\begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} [b2 \text{ root} ]_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} [b2 \text{ row} ]_1$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
B2-4	$\begin{matrix} \downarrow \\ \text{ov,ov} \end{matrix} [b2 \text{ row} ]_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ column} ]_1$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
B2-5	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ column} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ scalar} ]_1 \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ column} ]_2$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $width(1)+width(2)+B2Sh$ $x(2)=x(1)$ $height(0)=$ $+width(1)+B2Sh$ $\max(height(1),height(2))$ $y(2)=y(1)$
B2-6	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ column} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} [b2 \text{ scalar} ]_1$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
B2-7	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Valid through ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_vthrought$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_vthrought$
B2-8	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Variants ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_variant$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_variant$
B2-9	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Validity ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_validity$ $y(1)=y(0)$ $height(0)= HEIGHT\_validity$
B2-10	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Access Author. ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_aauthor$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_aauthor$
B2-11	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Origination ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_origination$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_origination$
B2-12	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Read Access ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_readaccess$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_readaccess$
B2-13	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Amentment ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_amentd$ $y(1)=y(0)$ $height(0)= HEIGHT\_amentd$
B2-14	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Communication ]_1$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_communication$ $height(0)=$ $HEIGHT\_communication$
B2-15	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Access Regulation ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_areculation$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_aregulation$
B2-16	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Responsibilities ]_1$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_responsibilities$ $height(0)=$ $HEIGHT\_responsibilities$
B2-17	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Appli. Oriented ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_aoriented$ $y(1)=y(0)$ $height(0)= HEIGHT\_aoriented$

No.	Production	Semantic rule
B2-18	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Organizational ]_1$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_organizational$ $height(0)=$ $HEIGHT\_organizational$
B2-19	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Technical ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_technical$ $y(1)=y(0)$ $height(0)= HEIGHT\_technical$
B2-20	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Custodial ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_custodial$ $y(1)=y(0)$ $height(0)= HEIGHT\_custodial$
B2-21	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Data Security ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_dsecurity$ $y(1)=y(0)$ $height(0)= HEIGHT\_dsecurity$
B2-22	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Recovery ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_recovery$ $y(1)=y(0)$ $height(0)= HEIGHT\_recovery$
B2-23	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Encryption ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_encryption$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_encryption$
B2-24	$\begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [b2 \text{ scalar} ]_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} [Use ]_1$	$x(1)=x(0)$ $width(0) = WIDTH\_use$ $y(1)=y(0)$ $height(0)= HEIGHT\_use$

No.	Production	Semantic rule
B3-0	$\begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} \text{[ b body ]}_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} \text{[ b3 ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
B3-1	$\begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 ]}_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} \text{B3} \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} \text{[ b3 root ]}_2$	$x(1)=0$ $\text{width}(0) = \text{width}(2)$ $y(1)=0$ $+B3Mleft+B3Mright$ $\text{height}(0)=\text{height}(2)$ $+B3Mtop+B3Mbottom$ $y(2)=y(1)+B3Mleft$ $+B3Mtop$
B3-2	$\begin{matrix} \downarrow \\ \text{in} \end{matrix} \text{[ b3 root ]}_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 row ]}_1$ $\begin{matrix} \downarrow \\ \text{in} \end{matrix} \text{[ b3 root ]}_2$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{max}(\text{width}(1),\text{width}(2))$ $x(2)=x(1)$ $\text{height}(0)=$ $y(2)=y(1)$ $\text{height}(1)+\text{height}(2)$ $+ \text{height}(1) + B3Sv$ $+B3Sv$
B3-3	$\begin{matrix} \downarrow \\ \text{in} \end{matrix} \text{[ b3 root ]}_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{matrix} \text{[ b3 row ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
B3-4	$\begin{matrix} \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 row ]}_0 := \begin{matrix} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 column ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
B3-5	$\begin{matrix} \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 column ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 scalar ]}_1 \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 column ]}_2$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{width}(1)+\text{width}(2)+B3Sh$ $x(2)=x(1)$ $\text{height}(0)=$ $+ \text{width}(1) + B3Sh$ $\text{max}(\text{height}(1),\text{height}(2))$ $y(2)=y(1)$
B3-6	$\begin{matrix} \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 column ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov} \end{matrix} \text{[ b3 scalar ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
B3-7	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Category}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_category}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_category}$
B3-8	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Status}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_status}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_status}$
B3-9	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Purpose}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_purpose}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_purpose}$
B3-10	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Descriptors}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_descriptor}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_descriptor}$
B3-11	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Sensitivity}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_sensitivity}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_sensitivity}$
B3-12	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Format}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_format}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_format}$
B3-13	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Size}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_size}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_size}$
B3-14	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Medium}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_medium}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_medium}$
B3-15	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Compression}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_compression}$ $\text{height}(0) =$ $\text{HEIGHT\_compression}$
B3-16	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Code}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_code}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_code}$
B3-17	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Character Set}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_charset}$ $\text{height}(0) =$ $\text{HEIGHT\_charset}$

No.	Production	Semantic rule
B3-18	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Data Type}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_datatype}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_datatype}$
B3-19	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Units}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_unit}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_unit}$
B3-20	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Range of Values}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_rangeofvalue}$ $\text{height}(0) =$ $\text{HEIGHT\_rangeofvalue}$
B3-21	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Encoding}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_encoding}$ $y(1)=y(0)$ $\text{height}(0) = \text{HEIGHT\_encoding}$
B3-22	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Cheking Condition}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_checkingcondition}$ $\text{height}(0) =$ $\text{HEIGHT\_checkingcondition}$
B3-23	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Occurrence}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_occurrence}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_occurrence}$
B3-24	$\begin{matrix} \downarrow \\ \text{in,ov,if} \end{matrix} \text{[ b3 scalar ]}_0 := \begin{matrix} \downarrow \\ \text{ov,if} \\ \downarrow \\ \text{in,ov,if} \end{matrix} \text{Dependencies}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_dependency}$ $\text{height}(0) =$ $\text{HEIGHT\_dependency}$



No.	Production	Semantic rule
C2-0	$\begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ body]_0 \\ \downarrow \\ \text{in} \end{array} := \begin{array}{c} \text{ov} \\ \downarrow \\ [c2]_1 \\ \downarrow \\ \text{in} \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0) = height(1)$
C2-1	$\begin{array}{c} \text{ov} \\ \downarrow \\ [c2]_0 \\ \downarrow \\ \text{in,ov} \end{array} := \begin{array}{c} \text{ov} \\ \downarrow \\ [C2]_1 \\ \downarrow \\ \text{in,ov} \end{array} \begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ root]_2 \\ \downarrow \\ \text{in} \end{array}$	$x(1)=0$ $width(0) = width(2)$ $y(1)=0$ $+C2Mleft+C2Mright$ $x(2)=x(1)+C2Mleft$ $height(0)=height(2)$ $y(2)=y(1)+C2Mtop$ $+C2Mtop+C2Mbottom$
C2-2	$\begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ root]_0 \\ \downarrow \\ \text{in} \end{array} := \begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ row]_1 \\ \downarrow \\ \text{in,ov} \end{array} \begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ root]_2 \\ \downarrow \\ \text{in} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $\max(width(1),width(2))$ $x(2)=x(1)$ $height(0)=$ $y(2)=y(1)$ $height(1)+height(2)$ $+ height(1) + C2Sv$ $+ C2Sv$
C2-3	$\begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ root]_0 \\ \downarrow \\ \text{in} \end{array} := \begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ row]_1 \\ \downarrow \\ \text{in} \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0) = height(1)$
C2-4	$\begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ row]_0 \\ \downarrow \\ \text{in,ov} \end{array} := \begin{array}{c} \text{ov} \\ \downarrow \\ [c2\ column]_1 \\ \downarrow \\ \text{in,ov} \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0) = height(1)$
C2-5	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2]_0 \\ \downarrow \\ \text{in,ov} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_1 \\ \downarrow \\ \text{in,ov} \end{array} \begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ column]_2 \\ \downarrow \\ \text{in,ov} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $width(1)+width(2)+C2Sh$ $x(2)=x(1)$ $height(0) =$ $+width(1)+C2Sh$ $\max(height(1),height(2))$ $y(2)=y(1)$
C2-6	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ column]_0 \\ \downarrow \\ \text{in,ov} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_1 \\ \downarrow \\ \text{in,ov} \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0) = height(1)$
C2-7	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Responsibilities} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_responsibility$ $height(0) =$ $HEIGHT\_responsibility$
C2-8	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Development} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_developmant$ $height(0) =$ $HEIGHT\_development$
C2-9	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Destribution} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_distribution$ $height(0) =$ $HEIGHT\_distribution$
C2-10	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Training} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_training$ $y(1)=y(0)$ $height(0) = HEIGHT\_training$
C2-11	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Modification} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_modification$ $height(0) =$ $HEIGHT\_modification$
C2-12	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Contractual Items} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_contractualitem$ $height(0) =$ $HEIGHT\_contractualitem$
C2-13	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Legal Condition} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_lagalcondition$ $height(0) =$ $HEIGHT\_legalcondition$
C2-14	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Training} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_training$ $height(0) =$ $HEIGHT\_training$
C2-15	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Quality Assurance} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_qualityassurance$ $height(0) =$ $HEIGHT\_qualityassurance$
C2-16	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Maintenance} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_maintenance$ $height(0) =$ $HEIGHT\_maintenance$
C2-17	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Destri. \& Filing} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_distributionfiling$ $height(0) =$ $HEIGHT\_distributionfiling$

No.	Production	Semantic rule
C2-18	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Testing} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_testing$ $y(1)=y(0)$ $height(0) = HEIGHT\_testing$
C2-19	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Training} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_training$ $y(1)=y(0)$ $height(0) = HEIGHT\_training$
C2-20	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Refinement Ref.} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_refinementrefer$ $height(0) =$ $HEIGHT\_refinementrefer$
C2-21	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Adapt. Suggestion} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_adaptaionsuggest$ $height(0) =$ $HEIGHT\_adaptationsuggest$
C2-22	$\begin{array}{c} \text{ov,lf} \\ \downarrow \\ [c2\ scalar]_0 \\ \downarrow \\ \text{in,ov,lf} \end{array} := \begin{array}{c} \text{ov,lf} \\ \downarrow \\ \text{Supp. Procedure} \\ \downarrow \\ \text{in,ov,lf} \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_supportofprocedure$ $height(0) =$ $HEIGHT\_supportofprocedure$



No.	Production	Semantic rule
C3-0	$\begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c body ]}_0 := \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c3 ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
C3-1	$\begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 ]}_0 := \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 ]}_1 \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c3 root ]}_2$	$x(1)=0$ $\text{width}(0) = \text{width}(2)$ $y(1)=0$ $+C3Mleft+C3Mright$ $x(2)=x(1)+C3Mleft$ $\text{height}(0)=\text{height}(2)$ $y(2)=y(1)+C3Mtop$ $+C3Mtop+C3Mbottom$
C3-2	$\begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c3 root ]}_0 := \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 row ]}_1 \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 root ]}_2$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{max}(\text{width}(1),\text{width}(2))$ $x(2)=x(1)$ $\text{height}(0)=$ $y(2)=y(1)$ $\text{height}(1)+\text{height}(2)$ $+ \text{height}(1) + C3Sv$ $+C3Sv$
C3-3	$\begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c3 root ]}_0 := \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in} \end{array} \text{[ c3 row ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
C3-4	$\begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 row ]}_0 := \begin{array}{c} \downarrow \\ \text{ov} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 column ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
C3-5	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 column ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 scalar ]}_1 \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 column ]}_2$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{width}(1)+\text{width}(2)+C3Sh$ $x(2)=x(1)$ $\text{height}(0)=$ $+ \text{width}(1)+C3Sh$ $\text{max}(\text{height}(1),\text{height}(2))$ $y(2)=y(1)$
C3-6	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 column ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov} \end{array} \text{[ c3 scalar ]}_1$	$x(1)=x(0)$ $\text{width}(0) = \text{width}(1)$ $y(1)=y(0)$ $\text{height}(0) = \text{height}(1)$
C3-7	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{References}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_reference}$ $\text{height}(0) =$ $\text{HEIGHT\_reference}$
C3-8	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Occ. Frequency}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_occfrequency}$ $\text{height}(0) =$ $\text{HEIGHT\_occfrequency}$
C3-9	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Function}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_function}$ $\text{height}(0) =$ $\text{HEIGHT\_function}$
C3-10	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Cap. \& R. Req.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_capabilityreq}$ $\text{height}(0) =$ $\text{HEIGHT\_capabilityreq}$
C3-11	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Rest. \& Excep.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_restexception}$ $\text{height}(0) =$ $\text{HEIGHT\_restexception}$
C3-12	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Personnel}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_personnel}$ $\text{height}(0) =$ $\text{HEIGHT\_personnel}$
C3-13	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Data Prtc. \& Sec.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_dataprtcsec}$ $\text{height}(0) =$ $\text{HEIGHT\_dataprtcsec}$
C3-14	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Personnel Skill}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_personnelskill}$ $\text{height}(0) =$ $\text{HEIGHT\_personnelskill}$
C3-15	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Hardware Req.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_hardwarereq}$ $\text{height}(0) =$ $\text{HEIGHT\_hardwarereq}$
C3-16	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Software Req.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_softwarereq}$ $\text{height}(0) =$ $\text{HEIGHT\_softwarereq}$
C3-17	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Supplies}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_supplies}$ $\text{height}(0) =$ $\text{HEIGHT\_supplies}$

No.	Production	Semantic rule
C3-18	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Timing Constraints}$	$x(1)=x(0)$ $\text{width}(0) = \text{WIDTH\_tconstraint}$ $y(1)=y(0)$ $\text{height}(0) =$ $\text{HEIGHT\_tconstraint}$
C3-19	$\begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{[ c3 scalar ]}_0 := \begin{array}{c} \downarrow \\ \text{ov,lf} \\ \downarrow \\ \text{in,ov,lf} \end{array} \text{Associated Doc.}$	$x(1)=x(0)$ $\text{width}(0) =$ $y(1)=y(0)$ $\text{WIDTH\_associateddoc}$ $\text{height}(0) =$ $\text{HEIGHT\_associateddoc}$



No.	Production	Semantic rule
D2-0	$\begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2]_0 \end{array} := \begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2]_1 \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
D2-1	$\begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in,ov} \\ [d2]_0 \end{array} := \begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in,ov} \\ [d2]_1 \\ \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2\ root]_2 \end{array}$	$x(1)=0$ $width(0) = width(2)$ $y(1)=0$ $+D2Mleft+D2Mright$ $x(2)=x(1)+D2Mleft$ $height(0)=height(2)$ $y(2)=y(1)+D2Mtop$ $+D2Mtop+D2Mbottom$
D2-2	$\begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2\ root]_0 \end{array} := \begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in,ov} \\ [d2\ row]_1 \\ \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2\ root]_2 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $\max(width(1),width(2))$ $x(2)=x(1)$ $height(0)=$ $y(2)=y(1)$ $height(1)+height(2)$ $+ height(1) + D2Sv$ $+D2Sv$
D2-3	$\begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2\ root]_0 \end{array} := \begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in} \\ [d2\ row]_1 \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
D2-4	$\begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in,ov} \\ [d2\ row]_0 \end{array} := \begin{array}{c} \downarrow \text{ov} \\ \downarrow \text{in,ov} \\ [d2\ column]_1 \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
D2-5	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov} \\ [d2\ column]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov} \\ [d2\ scalar]_1 \\ \downarrow \text{ov,lf} \\ \downarrow \text{in,ov} \\ [d2\ column]_2 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $width(1)+width(2)+D2Sh$ $x(2)=x(1)$ $height(0)=$ $+width(1)+D2Sh$ $\max(height(1),height(2))$ $y(2)=y(1)$
D2-6	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov} \\ [d2\ column]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov} \\ [d2\ scalar]_1 \end{array}$	$x(1)=x(0)$ $width(0) = width(1)$ $y(1)=y(0)$ $height(0)= height(1)$
D2-7	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Module Name]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_modulename$ $height(0)=$ $HEIGHT\_modulename$
D2-8	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Module Version]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_moduleversion$ $height(0)=$ $HEIGHT\_moduleversion$
D2-9	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Module Author]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_moduleauthor$ $height(0)=$ $HEIGHT\_moduleauthor$
D2-10	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Module Release]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_modulerelease$ $height(0)=$ $HEIGHT\_modulerelease$
D2-11	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Varients]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_variant$ $y(1)=y(0)$ $height(0)= HEIGHT\_variant$
D2-12	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Key Words]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_keyword$ $y(1)=y(0)$ $height(0)= HEIGHT\_keyword$
D2-13	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Size]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_size$ $y(1)=y(0)$ $height(0)= HEIGHT\_size$
D2-14	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Media]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_media$ $y(1)=y(0)$ $height(0)= HEIGHT\_media$
D2-15	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Objective]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_objective$ $y(1)=y(0)$ $height(0)= HEIGHT\_objective$
D2-16	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Method]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_method$ $y(1)=y(0)$ $height(0)= HEIGHT\_method$
D2-17	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [References]_1 \end{array}$	$x(1)=x(0)$ $width(0) = WIDTH\_reference$ $y(1)=y(0)$ $height(0)=$ $HEIGHT\_reference$

No.	Production	Semantic rule
D2-18	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Language]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_language$ $height(0)=$ $HEIGHT\_language$
D2-19	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Software Req.]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_softwarereq$ $height(0)=$ $HEIGHT\_softwarereq$
D2-20	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Result D. Descript.]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_resultddescription$ $height(0)=$ $HEIGHT\_resultddescription$
D2-21	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Invoking Specif.]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_invokingspecif$ $height(0)=$ $HEIGHT\_invokingspecif$
D2-22	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Example Invoking]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_exofinvoking$ $height(0)=$ $HEIGHT\_exofinvoking$
D2-23	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Inter Consist.]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_interconsistency$ $height(0)=$ $HEIGHT\_interconsistency$
D2-24	$\begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [d2\ scalar]_0 \end{array} := \begin{array}{c} \downarrow \text{ov,lf} \\ \downarrow \text{in,ov,lf} \\ [Data Sharing Spe.]_1 \end{array}$	$x(1)=x(0)$ $width(0) =$ $y(1)=y(0)$ $WIDTH\_datasharing$ $height(0)=$ $HEIGHT\_datasharing$