calculatoritems

Insert items of classic calculators.

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https://github.com/cpierquet/calculatoritems

```
Classic calculators items or menus :

35+E :
  \CalcItemMenu[model=35+,font=\fontCASIOA]{GRAPH}

90+E:
  \CalcItemMenu[model=90+,type=bmenu,font=\fontCASIOB]{MAT}

MATH+ :
  \CalcItemMenu[model=math+,font=\fontCASIOB,rightsymb=>]{arithmetic}

NWKS :
  \CalcItemMenu[model=nwks,type=bmenu,rightsymb=\nwkstri,len=12,font\fontNWKS]{X predict}

TI :
  \CalcItemMenu[model=ti,type=itemsel,font=\small\fontTI]{6§{fmin(}}

HP Prime :
  \CalcItemMenu[model=hp,type=itemsel,font=\small\fontHP,rightsymb=>]{4§Quadratic
    Explorer}
```

Classic calulators items or menus :

- 35+E : GRAPH
- 90+E : MAT
- MATH+ : arithmetic >
- NWKS : X predict ▶
- TI : 6:fmin(
- HP : 4 Quadratic Explorer >

Contents

1 History & Future

`0.1.0: Initial version`

2 Introduction

2.1 Loading, useful packages

In order to load `calculatoritems`, simply use:

```
\usepackage{calculatoritems}
```

Loaded packages are `xstring`, `calc`, `simplekv`, `tcolorbox` and `circledtext`.
Loaded libraries are `calc` and `skins`.
If `ammsymb` doen't need to be loaded (useful for int. macro), just add `[noamssymb]` to the loading.

```
%w/o amssymb loading
\usepackage[noamssymb]{calculatoritems}
```

2.2 Fonts

The package define shortcuts for fonts, depending on the engine, an option `[xelua]` can be used.

```
%normal loading, for classic engines (pdflatex/latex)
\usepackage{calculatoritems}
```

```
%special loading, for recent engines (xelatex/lualatex)
\usepackage[xelua]{calculatoritems}
```

Available fonts are given by followings macros (best fonts are `teletype`).

```
%normal loading, for classic engines (pdflatex/latex)
\newcommand\fontNWKS{%
  \fontencoding{T1}\fontfamily{SourceCodePro-TLF}\selectfont %nwks
}
\newcommand\fontCASIOA{%
  \fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont %casio35
}
\newcommand\fontCASIOB{%
  \fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont %casio90 & math+
}
\newcommand\fontTI{%
  \fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont %ti
}
\newcommand\fontHP{%
  \fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont %hp
}
```

```
%special loading, for recent engines (xelatex/lualatex) with fontspec
\newfontfamily\fontNWKS{SourceCodePro-Medium} %numworks
\newfontfamily\fontCASIOA{AnonymousPro} %casio35
\newfontfamily\fontCASIOB{AlegreyaSans} %casio90 & math+
\newfontfamily\fontTI{AnonymousPro} %ti
\newfontfamily\fontHP{AlegreyaSans} %casio90 & math+
```

2.3 Special macros

Special macros are available, to match with some custom *symbols*.

```
\nwkstri \qquad \tidots \qquad \casiodots
```

▶ … ○

3 Usage

3.1 Global usage

The purpose of the main macro is to insert, *inline*, a small `tcbox` to display *items* as for classic calculators.
Size and aspect are fixed, in order to *match* the original rendering.

3.2 The macro

The main macro is `\CalcItemMenu`.

```
\CalcItemMenu[keys]{content}
```

Available keys are :

- `model` : specify the model (`empty` by default) ;
- `type` : type of item, according to the specified model (`empty` by default) ;
- `fsep` : length for modifying the sep between rules and content (`1pt` by default) ;
- `font` : font for the content (`\bfseries\ttfamily` by default) ;
- `len` : internal key for modifying length of content, for same models/types (`auto` by default) ;
- `bg` : bg color or the *external background*, if necessary (`white` by default) ;
- `rightsymb` : right symbol, if necessary (`empty` by default).

4 Samples

4.1 Generic model

This is the default rendering.
Available items are :

- `[type={}]` := white menu (default value) **MyItem**
- `[type=black]` := black menu **MyItem**

```
%
\CalcItemMenu{MyItem}
\CalcItemMenu[type=black]{MyItem}
```

4.2 CASIO 35+ or fx-9860GIII

For this model, the key is `[model=35+]`, and font `[font=\fontCASIOA]` can be used.
By default, there's 4 *characters* in the box, so if there's more, a *h-stretch* is applied.
Available items are :

- `[type={}]` := white menu (default value) 

- `[type=bmenu]` := dark menu 

- `[type=item]` := item menu 

- `[type=itemsel]` := item selected (19 chars) with optional right symbol 


```
\CalcItemMenu[model=35+,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=bmenu,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=item,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=itemsel,font=\small\fontCASIOA]{TEST LONG ITEM}
```

4.3 CASIO 90+ or fx-CG50

For this model, the key is `[model=90+]`, and font `[font=\fontCASIOB]` can be used.
By default, there's 5 *characters* in the box, so if there's more, a *h-stretch* is applied.
Available items are :

- `[type={}]` := white menu (default value) 

- `[type=bmenu]` := black menu 

- `[type=item]` := item menu 

- `[type=itemsel]` := item selected (22 chars) with optional right symbol 


```
\CalcItemMenu[model=90+,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=bmenu,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=item,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=itemsel,font=\small\fontCASIOB]{TEST LONG ITEM}
```

4.4 CASIO MATH+

For this model, the key is `[model=math+]` (20 chars), and font `[font=\fontCASIOB]` can be used.
Only one item is available, due to *new global usage*, but `rightsymb` can be used.

- `[rightsymb={}]` (default) 

- `[rightsymb=>]` 

- `[rightsymb=\casiodots]` 


```
\CalcItemMenu[model=math+,font=\small\fontCASIOB]{MyItem}
\CalcItemMenu[model=math+,font=\small\fontCASIOB,rightsymb=>]{MyItem}
\CalcItemMenu[model=math+,font=\small\fontCASIOB,rightsymb=\casiodots]{MyItem}
```

4.5 NUMWORKS

For this model, the key is `[model=nwks]`, and font `[font=\fontNWKS]` can be used.
Available items are :

- `[type={}]` := white menu (default) MyItem
- `[type=gmenu]` := gray menu MyItem
- `[type=bmenu]` := black menu (22 chars, with `rightsymb`) MyItem ▶

```
\CalcItemMenu[model=nwks,font=\small\fontNWKS]{MyItem}
\CalcItemMenu[model=nwks,type=gmenu,font=\small\fontNWKS]{MyItem}
\CalcItemMenu[model=nwks,type=bmenu,font=\small\fontNWKS,rightsymb=\nwkstri]{MyItem}
```

4.6 TI

For this model, the key is `[model=ti]`, and font `[font=\fontTI]` can be used.
Available items are :

- `[type={}]` := black menu (default) MyItem
- `[type=menu]` := default menu MyItem
- `[type=itemsel]` := selected itemn, with number 1:MyItem...

```
\CalcItemMenu[model=ti,font=\small\fontTI]{MyItem}
\CalcItemMenu[model=ti,type=menu,font=\small\fontTI]{MyItem}
\CalcItemMenu[model=ti,type=itemsel,font=\small\fontTI]{1§{MyItem\tidots}}
```

4.7 HP Prime

For this model, the key is `[model=hp]`, and font `[font=\fontHP]` can be used.
By default, there's 5 *characters* in the box, so if there's more, a *h-stretch* is applied.
Available items are :

- `[type={}]` := semi-rounded (default value) Catlg
- `[type=ritem]` := rounded OK
- `[type=item]` := item with optional right symbol 1 Extremum >
- `[type=itemsel]` := item selected (21 chars) with optional right symbol

4 Quadratic Explorer >

```
\CalcItemMenu[model=hp,font=\small\fontHP]{Catlg}
\CalcItemMenu[model=hp,type=ritem,font=\small\fontHP]{OK}
\CalcItemMenu[model=hp,type=item,font=\small\fontHP,rightsymb={~>}]{1§Extremum}
\CalcItemMenu[model=hp,type=itemsel,font=\small\fontHP,rightsymb=>]{4§Quadratic Explorer}
```

5 The code

```
% Author        : C. Pierquet
% licence       : Released under the LaTeX Project Public License v1.3c or later, see http://www.latex-project.org/lppl.txtf

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{calculatoritems}[2024/11/10 0.1.0 Menus from classic calculators]

%====HISTORIQUE
% v 0.1.0 Initial version

%====OPTION
\newif\if@xelua \@xeluafalse
\newif\if@amssymb \@amssymbtrue
\DeclareOption{xelua}{\@xeluatrue}
\DeclareOption{noamssymb}{\@amssymbfalse}
\DeclareOption*{}
\ProcessOptions\relax

%====BASE
\if@amssymb
  \RequirePackage{amssymb}
  \newcommand\nwkstri{\footnotesize\textcolor{orange}{$\blacktriangleright$}}
\fi
\RequirePackage{xstring}
\RequirePackage{calc}
\RequirePackage{simplekv}
\RequirePackage{tcolorbox}
\RequirePackage{circledtext}
\usetikzlibrary{calc}
\tcbuselibrary{skins}

%====DIMs & Useful
\newlength\calcsimmenusfsep
\setlength\calcsimmenusfsep{1pt}
\newlength\calcsimmenusmenutc
\newlength\calcsimmenusitemtc
\newlength\calcsimmenusdepth
\newcommand\tidots{\scalebox{0.44}[0.55]{...}}
\newcommand\casiodots{\circledtext[resize=real,width=0.75em]{$\cdots$}}

%====TCSTYLES
\tcbset{casiotc/.style={%
    enhanced,fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxsep=\calcsimmenusfsep,%
    boxrule=0.8pt,left=0pt,right=0pt,top=0pt,%
    bottom=\dimexpr1pt-\calcsimmenusdepth\relax,no borderline
  }
}
\tcbset{casiotcmenunoir/.style={%
    width=\calcsimmenusmenutc,colframe=black,colback=black,%
    colupper=white,sharp corners,rounded corners=southeast,%
    arc=3pt,arc is angular,add to width=1pt
  }
}
\tcbset{casiotcmenublanc/.style={%
    enhanced,frame hidden,width=\calcsimmenusmenutc,%
    colframe=black,colback=white,colupper=black,%
    sharp corners,add to width=1pt,
    borderline north={0.75pt}{0pt}{black},
    borderline west={0.75pt}{0pt}{black}
  }
}
\tcbset{casiotcitemnoir/.style={%
    width=\calcsimmenusmenutc,colframe=black,%
    colback=black,colupper=white,sharp corners,add to width=1pt
  }
}
\tcbset{casiotcitemsel/.style={%
    width=\calcsimmenusitemtc,sharp corners,%
    colframe=black,colback=black,colupper=white
  }
}

\tcbset{casioqd/.style={%
    fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxsep=\calcsimmenusfsep,%
    boxrule=0.8pt,left=0pt,right=0pt,top=0pt,%
    bottom=\dimexpr1pt-\calcsimmenusdepth\relax,%
  }
}
\tcbset{casioqdmenunoir/.style={%
    enhanced,width=\calcsimmenusmenutc,colframe=black,%
    colback=black,colupper=white,arc=1pt,add to width=2pt
  }
}
\tcbset{casioqdmenublanc/.style={%
    width=\calcsimmenusmenutc,colframe=black,colback=white,%
    colupper=black,rounded corners,arc=1pt,add to width=2pt
  }
}
\tcbset{casioqditemnoir/.style={%
    width=\calcsimmenusmenutc,colframe=black,colback=black,%
    colupper=white,sharp corners,add to width=2pt
  }
}
```

```
\tcbset{casioqditemsel/.style={%
    width=\calcsimmenusitemtc,sharp corners,colframe=black,%
    colback=black,colupper=white,sharp corners
  }
}

\tcbset{vignettemenunwks/.style={%
    top=\dimexpr0.45pt+0.5\calcsimmenusfsep\relax,bottom=\dimexpr1pt-\calcsimmenusdepth\relax,%
    left=2pt,right=2pt,fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxrule=0.45pt,boxsep=0.5\calcsimmenusfsep,sharp corners=all
  }
}

\tcbset{vignettemenuti/.style={%
    size=tight,boxrule=0.45pt,fontupper=\calcsimmenusfont,%
    nobeforeafter,left=0.45pt,right=0.45pt,top=0.15pt,bottom=0.15pt,box align=base
  }
}

\tcbset{vignettemenuhp/.style={%
    enhanced,fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxsep=\calcsimmenusfsep,%
    boxrule=0.8pt,left=0pt,right=0pt,top=0pt,%
    bottom=\dimexpr1pt-\calcsimmenusdepth\relax,%
  }
}

\tcbset{vignettemenuhpnorth/.style={%
    width=\calcsimmenusmenutc,colupper=white,colback=darkgray!90,colframe=darkgray,%
    sharp corners=north,add to width=2pt
  }
}
\tcbset{vignettemenuhpround/.style={%
    width=\calcsimmenusmenutc,colupper=white,colback=darkgray!90,colframe=darkgray,%
    rounded corners,arc=1pt,add to width=2pt
  }
}
\tcbset{vignettemenuhpitemsel/.style={%
    width=\calcsimmenusitemtc,sharp corners,colframe=cyan!15,%
    colback=cyan!15,colupper=black,sharp corners
  }
}

\tcbset{vignettemenuhpitem/.style={%
    sharp corners,colframe=cyan!15,colback=cyan!15,colupper=black,sharp corners
  }
}

%====SPECIAL
\if@xelua
  \newfontfamily\fontNWKS{SourceCodePro-Medium} %numworks
  \newfontfamily\fontCASIOA{AnonymousPro} %casio35
  \newfontfamily\fontCASIOB{AlegreyaSans} %casio90
  \newfontfamily\fontTI{AnonymousPro} %ti
  \newfontfamily\fontHP{AlegreyaSans} %ti
\else
  \newcommand\fontNWKS{\fontencoding{T1}\fontfamily{SourceCodePro-TLF}\selectfont} %nwks
  \newcommand\fontCASIOA{\fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont} %casio35
  \newcommand\fontCASIOB{\fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont} %casio90
  \newcommand\fontTI{\fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont} %ti
  \newcommand\fontHP{\fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont} %casio90
\fi

%====KEYS
\defKV[calcsimmenus]{%
  model=\def\calcsimmenusmodel{#1},%
  type=\def\calcsimmenustype{#1},%
  fsep=\setlength\calcsimmenusfsep{#1},%
  font=\def\calcsimmenusfont{#1},%
  len=\def\calcsimmenuslen{#1},%
  bg=\def\calcsimmenusbg{#1},%
  rightsymb=\def\calcsimmenusrsymb{#1}
}
\setKVdefault[calcsimmenus]{%
  model={},%
  type={},%
  fsep=0.5pt,%
  font={\bfseries\ttfamily},%
  len=auto,%
  bg=white,%
  rightsymb={}
}

\NewDocumentCommand\CalcItemMenu{ O{} m }{%
  \restoreKV[calcsimmenus]%
  \setKV[calcsimmenus]{#1}%
  \IfEq{\calcsimmenusmodel}{}%gen model
    {%
      \IfEq{\calcsimmenustype}{}%white bg
        {%
          {\setlength{\fboxsep}{\calcsimmenusfsep}\fcolorbox{black}{white}{\vphantom{qH}\calcsimmenusfont#2}}%
        }%
        {}%
      \IfEq{\calcsimmenustype}{black}%black bg
        {%
          {\setlength{\fboxsep}{\calcsimmenusfsep}\fcolorbox{black}{black}{\vphantom{qH}\calcsimmenusfont\textcolor{white}{#2}}}%
        }%
        {}%
```

```
    {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{35+}%
  {%
    \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXX}}%
    \addtolength{\calcsimmenusmenutc}{2pt}%
    \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXX}}%
    \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
    \IfEq{\calcsimmenuslen}{auto}%
      {%
        \StrLen{#2}[\calcsimmenusnbchar]%
        \xdef\calcsimmenushscale{\fpeval{min(4/(\calcsimmenusnbchar),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      {%
        \xdef\calcsimmenushscale{\fpeval{min(4/(\calcsimmenuslen),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
    \IfEq{\calcsimmenustype}{}%white menu
      {%
        {\tcbox[tcbox width=minimum center,casiotc,casiotcmenublanc]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{bmenu}%black menu
      {%
        {\tcbox[tcbox width=minimum center,casiotc,casiotcmenunoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{item}%item
      {%
        {\tcbox[tcbox width=minimum center,casiotc,casiotcitemnoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{itemsel}%item sel
      {%
        {\tcbox[tcbox width=minimum left,casiotc,casiotcitemsel]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}{#2}\hfill{\calcsimmenusrsymb}}}}%
      }%
      {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{90+}%
  {%
    \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXXX}}%
    \addtolength{\calcsimmenusmenutc}{2pt}%
    \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXXXX}}%
    \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
    \IfEq{\calcsimmenuslen}{auto}%
      {%
        \StrLen{#2}[\calcsimmenusnbchar]%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenusnbchar),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      {%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenuslen),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
    \IfEq{\calcsimmenustype}{}%white menu
      {%
        {\tcbox[tcbox width=minimum center,casioqd,casioqdmenublanc]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{bmenu}%black menu
      {%
        {\tcbox[tcbox width=minimum center,casioqd,casioqdmenunoir,overlay={\path[fill=\calcsimmenusbg]($(frame.south east) + (0.1pt,-0.1pt)$) -- ++
   (0pt,3.2pt)  -- ++ (-3.2pt,-3.2pt) -- cycle;}]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{item}%item
      {%
        {\tcbox[tcbox width=minimum center,casioqd,casioqditemnoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{itemsel}%item
      {%
        {\tcbox[tcbox width=minimum left,casioqd,casioqditemsel]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}{#2}\hfill{\calcsimmenusrsymb}}}}%
      }%
      {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{math+}%
  {%
    \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXXX}}%
    \addtolength{\calcsimmenusmenutc}{2pt}%
    \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXXX}}%
    \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
    \IfEq{\calcsimmenuslen}{auto}%
      {%
        \StrLen{#2}[\calcsimmenusnbchar]%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenusnbchar),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      {%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenuslen),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
    \IfEq{\calcsimmenustype}{}%white menu
      {%
```

```
        {\tcbox[tcbox width=minimum left,casioqd,casioqditemnoir]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}{#2}\hfill{\calcsimmenusrsymb}}}}%
      }%
      {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{nwks}%
  {%
    \setlength{\calcsimmenusdepth}{0.375pt}%
    \IfEq{\calcsimmenustype}{}%white menu
      {%
        {\tcbox[vignettemenunwks,colframe=gray,colupper=darkgray,colback=white]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{gmenu}%gray menu
      {%
        {\tcbox[vignettemenunwks,colframe=lightgray!50,colupper=black,colback=lightgray!50]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{bmenu}%dark menu
      {%
        \xdef\tmplengthmenunwks{}%
        \IfEq{\calcsimmenuslen}{auto}%
          {%
            \foreach \i in {1,...,22}{\xdef\tmplengthmenunwks{X\tmplengthmenunwks}}%
          }%
          {%
            \foreach \i in {1,...,\calcsimmenuslen}{\xdef\tmplengthmenunwks{X\tmplengthmenunwks}}%
          }%
        \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont\tmplengthmenunwks}}%
        {%
          \tcbox[width=\calcsimmenusitemtc,tcbox width=minimum left,vignettemenunwks,colframe=gray,colupper=black,colback=lightgray!75]%
            {\makebox[\calcsimmenusitemtc]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}\hfill{\calcsimmenusrsymb}}}%
        }%
      }%
      {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{ti}%
  {%
    \IfEq{\calcsimmenustype}{}% black menu
      {%
        {\tcbox[vignettemenuti,colback=black,colframe=black,colupper=white]{\vphantom{qH}\scalebox{0.9}[1]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{menu}% menu sel
      {%
        {\tcbox[vignettemenuti,colback=white,colframe=black,colupper=black]{\vphantom{[A]/Fiy}\scalebox{0.9}[1]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{itemsel}%item sel
      {%
        \StrCut{#2}{§}{\calcsimmenusnb}{\calcsimmenuslab}%
        {%
          \tcbox[vignettemenuti,colback=black,colframe=black,colupper=white]{\vphantom{[A]/Fiy}\scalebox{0.9}[1]{\calcsimmenusnb:}}%
          \hspace*{-0.225pt}%
          \tcbox[vignettemenuti,colback=white,colframe=black,colupper=black]{\vphantom{[A]/Fiy}\scalebox{0.9}[1]{\calcsimmenuslab}}}%
      }%
      {}%
  }%
  {}%
\IfEq{\calcsimmenusmodel}{hp}%
  {%
    \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXXX}}%
    \addtolength{\calcsimmenusmenutc}{2pt}%
    \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXXXX}}%
    \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
    \IfEq{\calcsimmenuslen}{auto}%
      {%
        \StrLen{#2}[\calcsimmenusnbchar]%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenusnbchar),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      {%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenuslen),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
    \IfEq{\calcsimmenustype}{}%bottom rounded
      {%
        {\tcbox[tcbox width=minimum center,vignettemenuhp,vignettemenuhpnorth]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{ritem}%rounded item
      {%
        {\tcbox[tcbox width=minimum center,vignettemenuhp,vignettemenuhpround]{\vphantom{qH}\scalebox{\calcsimmenushscale}[\calcsimmenusvscale]{#2}}}%
      }%
      {}%
    \IfEq{\calcsimmenustype}{item}%item
      {%
        \StrCut{#2}{§}{\calcsimmenusnb}{\calcsimmenuslab}%
        {%
          \tcbox[vignettemenuhp,vignettemenuhp,vignettemenuhpitem]%
            {\vphantom{qH}\raisebox{0.75\calcsimmenusdepth}{\scalebox{0.66}[0.66]{\calcsimmenusnb}}\,{\calcsimmenuslab}{\calcsimmenusrsymb}}%
        }%
      }%
      {}%
    \IfEq{\calcsimmenustype}{itemsel}%item
      {%
        \StrCut{#2}{§}{\calcsimmenusnb}{\calcsimmenuslab}%
```

```
          {%
            \tcbox[tcbox width=minimum left,vignettemenuhp,vignettemenuhpitemsel]{%
              \makebox[\calcsimmenusitemtc]{%
                \vphantom{qH}\raisebox{0.75\calcsimmenusdepth}{\scalebox{0.66}[0.66]{\calcsimmenusnb}}\,{\calcsimmenuslab}\hfill{\calcsimmenusrsymb}%
              }%
            }%
          }%
        }%
        {}%
    }%
    {}%
}

\endinput
```