<wavdata>

wavdata::wavdatabox;

multimedia key can not response at app opened use administrator;

Standard Operating Procedure

<UsingLibrary>

```
superapi::supercolordialog;
superapi::supercore;
superapi::superfiledialog;
superapi::supernotedialog;
superapi::supertabwidget;
superapi::superwindow;
```

public;

include;

supertools public superapi::superwindow; supertools::supermain public superapi::supertabwidget;

<SuperTools>

<SuperTools::SuperInit>

```
clicked;
read file at "./_readme_/_setting_/_defaultsetting_.ini";
if file is empty,load serialport module;

clicked;
open file dialog and select setting file;
operate related widgets;
add setting file's name to lineedit;

Local Setting
clicked;
load setting from lineedit files;

setting_.ini file

nousercontrol;
display local setting file;
```

<SuperTools::SuperMain>

```
Themes
              mouseenter;
                             exec themes menu;
                             include initbox's action: original,color,heartofiron,goertek;
    Load
             mouseenter;
                             exec load menu;
                             include plugin, setting;
     Plugin
              triggered;
              control + Key_L;
                             open filedialog at "./__readme__/_module__/" and split .pdf file;
                             select module to import;
     Setting
              triggered;
                             open filedialog at "./_readme__/_setting__/" and split .ini file;
                             select setting to import;
## Setting
```

1

```
mouseenter;
                                          exec setting menu;
                                          include change language action;;
               X Change Language
                            triggered;
                                          change supertools' language;
                                          no develop now;
               % Help
                            mouseenter;
                                          exec help menu;
                                          include open cache path, version, instructions;
                   Open Cache Path
                            triggered;
                            control + Key_O;
                                          open folder at "./_depycache_/_cache_";
                    Version
                            triggered;
                                          open file at "./__readme__/__version__/_super_.pdf"
                    Readme
                            triggered;
                                          find current tab name at "./__readme__/__module__",and open;
                    Superapi
                            triggered;
                                          open file at "./__readme__/__version__/_superapi_.pdf"
               ■ Save
                            triggered;
                            control + Key_S;
                                          save current tabs' name to setting opened;
               Save As
                            triggered;
                                          save current tabs' name as another setting;
               Quit
                            triggered;
                                          eject choose dialog, select close or not;
                            clicked;
                            control + Key_P;
                                          set as current tab, eject choose dialog;
                                          close this tab or not;
<SuperTools::SuperTray>
                            activated;
                                          show this;
                                          move application to center;
                            doubleclicked;
                                          show this;
                                          move application to center;
                            rightclicked;
                                          exec tray menu;
                                          include regedit, task manager, computer manager, quit;
                   regedit
                            triggered;
                                          run start regedit.exe command;
                    taskmanager
                            triggered;
                                          run start taskmgr.exe command;
                    computermanager
                            triggered;
```



triggered;

run start ncpa.cpl command;



triggered;

eject choose dialog, select close or not;

Version Logs

<Version 6.22.0408.S053.A124>

windows system uses msvc2019 compiler; linux system uses gcc compiler; optization api stepa;

<Version 6.22.0405.S053.A123>

supertools source adpating to ubuntu kde x11 platform; fix superfilemanager api bugs;

<Version 6.22.0404.S052.A122>

supertools source adpating to ubuntu kde x11 platform; optization user experience; update superapi for linux; update supertools icon;

<Version 6.22.0330.S051.A121>

develop supertools for linux;

<Version 6.22.0325.S050.A121>

update super.dll; fix super.dll close tab bugs;

<Version 6.22.0322.S049.A121>

update wasapi.dll;

<Version 6.22.0321.S048.A121>

fix wasapi.dll bugs;

<Version 6.22.0319.S047.A121>

update supercore api; fix wavdata.dll bugs; fix superwindow api bugs;

<Version 6.22.0315.S046.A120>

update superfinddialog api;

<Version 6.22.0313.S045.A119>

remove build folder for github space; add msvc2019 compiler and add different variable for platform; update superhook api;

<Version 6.22.0309.S044.A118>

update superfilemanager api;

<Version 6.22.0306.S043.A117>

update superfiledialog api;

<Version 6.22.0304.S042.A116>

remove supervisa api; remove superwidgettimer api;

<Version 6.22.0302.S041.A115>

fix relay.dll bugs; fix richer.dll bugs;

<Version 6.22.0301.S040.A115>

update supertab api; remove super.dll creat cache file function; update richer.dll;

<Version 6.22.0228.S039.A114>

fix wavdata.dll bug; update superwindow api;

<Version 6.22.0225.S038.A113>

update super.dll; replace setting menu text as config; update superwindow api; update game.dll;

<Version 6.22.0224.S037.A112>

update readme and rebuild all super.dll; fix wavdata.dll bugs;

<Version 6.22.0222.S036.A112>

update supercore api; fix super.dll tab move bugs;

<Version 6.22.0219.S035.A111>

update superwindow api; update wavdata.dll;

<Version 6.22.0218.S034.A111>

update superwindow api;

<Version 6.22.0215.S033.A110>

update superfilemanager api; update relay.dll; update superfiledialog api; update superwindow api;

<Version 6.22.0214.S032.A109>

update superfilemanager api; update wavdata.dll;

<Version 6.22.0212.S031.A108>

update superlogger api; update superfilemanager api;

<Version 6.22.0211.S030.A107>

update supercore api; update superwindow api; update superfiledialog api; remove system.dll; update supericon;

<Version 6.22.0210.S029.A106>

update supertab api; update copy file.bat as .py; update superlogger api; update supercore api; rebulid all super.dll;

<Version 6.22.0210.S028.A105>

update chatbox.dll;

<Version 6.22.0209.S027.A105>

update supermultimedia api; update wasapibox.dll;

<Version 6.22.0209.S026.A104>

update qt version,6.2.2->6.3.0;

<Version 6.22.0209.S025.A104>

update module sop;

<Version 6.22.0207.S023.A104>

update superapi;

<Version 6.22.0207.S023.A103>

update wavdatabox.dll;

<Version 6.22.0206.S022.A103>

update wavdatabox.dll;

<Version 6.22.0205.S021.A103>

update supermultimedia api; update wavdatabox.dll;

<Version 6.22.0202.S020.A102>

update wavdatabox dll;

<Version 6.22.0201.S019.A102>

update supermultimedia playwav class; add qtimer for determine filepos instead of emit signal;

<Version 6.20220129.019>

replace release svg cache file at init as use .qrc source files;

<Version 6.20220128.018>

add superapi explain; rewrite all module explain by public mode; update super filedialog ui; replace supertextbrowser api as superlogger api;

<Version 6.20220126.017>

add superhook api; add universal superapi explain;

<Version 6.20220125.016>

fix mouse enter title bugs;

<Version 6.20220125.015>

fix mouse leave title bugs;

<Version 6.20220125.014>

fix superfilemanager clear filelist bugs;

<Version 6.20220125.013>

fix device module ui bugs;

<Version 6.20220125.012>

update superwindow api; change cursor when mouse arrived at border,and press for resize widget; remove supermain.ui file; daily bugs fixed;

<Version 6.20220123.011>

rename dialog module tilte;

<Version 6.20220122.010>

rebuild all dll;

<Version 6.20220121.009>

update superfilemanager api; update supermultimedia api; update supertextbrowser api,replace clear button with api's action;

<Version 6.20220121.008>

add superfilemanager api;

```
<Version 6.20220120.007>
             update supertextbrowser api;
             replace clear pushbutton with action;
<Version 6.20220119.006>
             update supermultimedia api;
             add playsignal class;
<Version 6.20220119.005>
             update superserial api scan serial port thread's parameter;
<Version 6.20220119.004>
             fix supersender api focus as strong;
<Version 6.20220119.003>
             fix another display logs function bugs;
<Version 6.20220118.002>
             fix display logs function bugs;
<Version 6.20220118.001>
             update to qt6;
             remove x86 support;
update supermulitmedia api;
             bug fixed daily;
<Version 20220113.368>
             bug fixed daily;
             add file manager module load and record function;
<Version 20220112.367>
             bug fixed daily;
<Version 20220111.366>
             bug fixed daily;
             add fix path function, make sure path last word is "/";
<Version 20220110.365>
             bug fixed daily;
             update _resuper_.dll function;
<Version 20220109.364>
             update supercolordialog function;
             add sampler;
             bug fixed daily;
<Version 20220107.363>
             update superfiledialog user experience;
             bug fixed daily;
<Version 20220105.362>
             add supersenderbox function;
             bug fixed daily;
<Version 20220104.361>
             add explain for some button;
             bug fixed daily;
<Version 20211231.360>
             add _visabox_.dll function;
             bug fixed daily;
<Version 20211230.359>
             replace qtextbrowser with supertextbrowser;
             bug fixed daily;
<Version 20211225.358>
```

bug fixed daily;

<Version 20211223.357>

bug fixed daily; fix thread start bugs;

<Version 20211220.356>

bug fixed daily; fix superserial api sanserialport function bugs; add superfiledialog api preview picture function; fix superfiledialog api tablewidget reset bugs;

<Version 20211216.355>

bug fixed daily; replace qfiledialog as superfiledialog; replace qcolordialog as supercolordialog;

<Version 20211208.354>

bug fixed daily; update _wasapibox_.dll;

<Version 20211206.353>

bug fixed daily; update function var format; update _csvdatabox_.dll,add grr mode function;

<Version 20211126.352>

bug fixed daily;

<Version 20211124.351>

update creatqrcfile as replacefile function;

<Version 20211122.350>

add mp3 to wav/pcm function; bug fixed daily;

<Version 20211118.349>

add ape to wav/pcm function; bug fixed daily;

<Version 20211112.348>

add open path api; fix bugs daily;

<Version 20211109.347>

add select files api; fix bugs daily;

<Version 20211106.346>

optization supernote display bugs; add \n function;

<Version 20211102.345>

add flac to wav/pcm function; bug fixed daily;

<Version 20211021.344>

replace qmessagebox with supernotedialog;

<Version 20211020.343>

optimization _wasapibox_.dll; optimization _wavdatabox_.dll; optimization user experience; fix bugs;

<Version 20211013.342>

optimization supermultimedia api; add caldbv,calfrequency,calthd function;

<Version 20211009.341>

fix display bug;

<Version 20211008.340>

refresh all superapi; optimization programe structure; add explain for every function,not include init;

upgrade version structure;

<20210003 Version 3.39>

change action instructions as readme;

<20210930 Version 3.38>

Uniform widget text format;

<20210927 Version 3.37>

write sop for every module; generate dll module pdf file autoly;

<20210918 Version 3.36>

develop _richer_.dll for edit rich files;

<20210918 Version 3.35>

rebuild all .dll files; add instructions for every module; add instructions actions;

<20210918 Version 3.34>

rebuild all .dll files; fix _chat_.dll bugs,optimization user performance;

<20210917 Version 3.33>

develop _chatbox_.dll; add anwser function by udp protocol; add file transmite function by tcp protocol; add message chat function by udp protocol;

<20210912 Version 3.32>

develop chatbox .dll;

<20210908 Version 3.31>

fix known bug;

<20210907 Version 3.30>

change qgroupbox to qframe;

<20210905 Version 3.29>

 $update _superprogress bardialog _ api;$

<20210905 Version 3.28>

use superwidget frame;

<20210904 Version 3.27>

write superwidget frame;

<20210902 Version 3.26>

fix pointer manager bug;

<20210902 Version 3.25>

write playwav class for supermedia api;

<20210827 Version 3.24>

updata check serial port exist function; add init parameter for code variable;

<20210825 Version 3.23>

merge dialog with box;

<20210824 Version 3.22>

Update _hitbrickdialog_.dll V1.01 completed; Add some kind bullet such as shotgame; Fix supertools move bug when exec menu; Add exec api by widget; Fix open wavfiledialog wav file bug; _ledanalyser_.dll add 10channel ir model;

<20210817 Version 3.21>

 $develop_hitbrick dialog_.dll~V1.00~completed;\\$

<20210810 Version 3.20>

developing _gamebox_.dll; developing _hitbrickdialog_.dll;

```
<20210803 Version 3.19>
              developing _litepointiqgigifbox_.dll;
<20210731 Version 3.18>
              update display log api;
<20210728 Version 3.17>
              uninstall codec,use system codec;
              develop _wavdatadialog_.dll;
<20210721 Version 3.16>
              update codec, use qbytearray almostly;
<20210717 Version 3.15>
              wasapibox add record wav and save function;
              bugfix, systembox ip name parameter set add "";
<20210715 Version 3.14>
              Optimization supertools;
<20210714 Version 3.13>
              Optimization superwidget api;
<20210711 Version 3.12>
              remake ui;
              add superwidget api;
              set personalization function;
<20210706 Version 3.11>
              remake _csvprocesser_.py as _csvdata_.dll completed;
              Optimization superserialapi;
<20210701 Version 3.10>
              add _progressbar_.dll for run thread;
<20210627 Version 3.09>
              remake \_ledanaly serbox\_.py\ completed;
              Optimization superserialapi;
<20210624 Version 3.08>
              remake _geminibox_.py and _scanner_.py file completed;
<20210621 Version 3.07>
              remake _wasapibox_.py file completed;
<20210605 Version 3.06>
              Split superapi to list:
              superframe api, supermultimedia api, superplot api, superserial api;
<20210604 Version 3.05>
              remake _wasapibox_.py file to _wasapibox_.dll ing;
              Optimization superapi;
<20210602 Version 3.04>
              remake _gtkrelaybox_.py file to _gtkrelaybox_.dll by C++;
              Optimization superapi;
<20210528 Version 3.03>
              remake _serialbox_.py file to _serialbox_.dll by C++;
              Optimization superapi;
<20210525 Version 3.02>
              remake frame .py file to frame .dll by C++;
              remake _systemtray _.py file to _systemtray _.dll by C++; remake _systembox _.py file to _systembox _.dll by C++;
              Optimization _systembox_ ui;
<20210521 Version 3.01>
              remake _init_.py file to _init_.dll by C++;
<20210502 Version 3.00>
              C++ for supertools;
<20210408 Version 2.08>
```

<Theme Update>

There are a thousand Hamlets in a thousand people's eyes;

<Frame Update>

- 1.Change startup ui;
 2.Add .ini setting file and .xml files can be import for your supertools;
 2.Remove redundancy library,smaller than latest version;
 3.Reduce memory used when supertools startup,and will improve when import any files,;
- 4.Fix close app no response bug;5.Add tab page closeable function;
- 6.Fix output logs bug,use anothor way to display value; 7.Superapi remove lock;

<Module Update>

- 1. Fileprocesser split into csvprocesser and wavprocesser, or more;
- 2.Csvprocesser fix disable process files button bug;
- 3. Wasapi update calculate frequency function, more precisely!!!, fix flashback bug when analysis capture data;
- 4.Gtkrelay fix baudrate ui bug;
- 5.Ledanalyser fix display baudrate bug;
- 6.Ngi835x fix ui bug;

<20210325 Version 1.29>

<Update Title>

First version release

<Frame Update>

None;

<Module Update>

None;

<20201126 Version 1.00>

Created by Kal.Han