```matlab
function varargout = Land_Resource_Sustainability_Management_System(varargin)
%        LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM        MATLAB        code        for
Land_Resource_Sustainability_Management_System.fig
%             LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM,  by  itself,  creates  a  new
LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM or raises the existing
%      singleton*.
%
%         H = LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM  returns  the  handle  to  a  new
LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM or the handle to
%      the existing singleton*.
%
%         LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM('CALLBACK',hObject,eventData,handles,...)
calls the local
%      function named CALLBACK in LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM.M with the given
input arguments.
%
%         LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM('Property','Value',...)  creates  a  new
LAND_RESOURCE_SUSTAINABILITY_MANAGEMENT_SYSTEM or raises the
%      existing singleton*.  Starting from the left, property value pairs are
%       applied to the GUI before Land_Resource_Sustainability_Management_System_OpeningFcn gets
called.  An
%      unrecognized property name or invalid value makes property application
%      stop.  All inputs are passed to Land_Resource_Sustainability_Management_System_OpeningFcn via
varargin.
%
%      *See GUI Options on GUIDE's Tools menu.  Choose "GUI allows only one
%      instance to run (singleton)".
%
% See also: GUIDE, GUIDATA, GUIHANDLES
% Edit the above text to modify the response to help Land_Resource_Sustainability_Management_System
% Last Modified by GUIDE v2.5 23-Apr-2024 17:07:57
% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',          mfilename, ...
                   'gui_Singleton',  gui_Singleton, ...
                   'gui_OpeningFcn',
@Land_Resource_Sustainability_Management_System_OpeningFcn, ...
                   'gui_OutputFcn',
@Land_Resource_Sustainability_Management_System_OutputFcn, ...
                   'gui_LayoutFcn',  [] , ...
                   'gui_Callback',   []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT
% --- Executes just before Land_Resource_Sustainability_Management_System is made visible.
function Land_Resource_Sustainability_Management_System_OpeningFcn(hObject, eventdata, handles,
```

```
varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to Land_Resource_Sustainability_Management_System (see VARARGIN)
% Choose default command line output for Land_Resource_Sustainability_Management_System
handles.output = hObject;
handles = initializeGUIComponents(handles);
% Update handles structure
guidata(hObject, handles);
% --- Outputs from this function are returned to the command line.
function varargout = Land_Resource_Sustainability_Management_System_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;
function edit8_Callback(~, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'
    BackgroundColor','white');
end
function edit9_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit9_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```
end
% --- Executes on selection change in popupmenu3.
function popupmenu3_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu3 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu3
% --- Executes during object creation, after setting all properties.
function popupmenu3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in checkbox1.
function checkbox1_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox1
% --- Executes on button press in checkbox2.
function checkbox2_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox2
% --- Executes on button press in checkbox3.
function checkbox3_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox3
function edit10_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit10 as text
%        str2double(get(hObject,'String')) returns contents of edit10 as a double
% --- Executes during object creation, after setting all properties.
function edit10_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
```

```matlab
function edit11_Callback(hObject, eventdata, hafunction edit8_Callback(~, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit9_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit9_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu3.
function popupmenu3_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu3 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu3
% --- Executes during object creation, after setting all properties.
function popupmenu3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in checkbox1.
function checkbox1_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox1 (see GCBO)
```

```matlab
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox1
% --- Executes on button press in checkbox2.
function checkbox2_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox2
% --- Executes on button press in checkbox3.
function checkbox3_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox3
function edit10_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit10 as text
%        str2double(get(hObject,'String')) returns contents of edit10 as a double
% --- Executes during object creation, after setting all properties.
function edit10_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit11_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit11 as text
%        str2double(get(hObject,'String')) returns contents of edit11 as a double
% --- Executes during object creation, after setting all properties.
function edit11_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit12_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit12 as text
```

```matlab
%          str2double(get(hObject,'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit12_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu4.
function popupmenu4_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu4 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu4
% --- Executes during object creation, after setting all properties.
function popupmenu4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on slider movement.
function slider1_Callback(hObject, eventdata, handles)
% hObject    handle to slider1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'Value') returns position of slider
%        get(hObject,'Min') and get(hObject,'Max') to determine range of slider
% --- Executes during object creation, after setting all properties.
function slider1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to slider1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: slider controls usually have a light gray background.
if isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor',[.9 .9 .9]);
end
function edit13_Callback(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit13 as text
%        str2double(get(hObject,'String')) returns contents of edit13 as a double
% --- Executes during object creation, after setting all properties.
function edit13_CreateFcn(hObject, eventdata, handles)
```

```matlab
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit7_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit7 as text
%        str2double(get(hObject,'String')) returns contents of edit7 as a double
% --- Executes during object creation, after setting all properties.
function edit7_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit8_Callback(~, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit9_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit9_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```matlab
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu3.
function popupmenu3_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu3 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu3
% --- Executes during object creation, after setting all properties.
function popupmenu3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton3.
function text55_ButtonDownFcn(hObject, eventdata, handles)
% hObject    handle to pushbutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
h = msgbox('网络连接状态正常', '网络连通性测试','help');
jMsgBox = h.JavaFrame.getFigurePanelContainer.getComponent(0).getTopLevelAncestor;
jMsgBox.setAlwaysOnTop(true);
figure(handles.figure1);
drawnow; pause(1);
capture_and_draw_msgbox(h, true, 'text65', 'uipanel11', true, 'tu11.png');
% --- Executes on button press in checkbox1.
function checkbox1_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox1
% --- Executes on button press in checkbox2.
function checkbox2_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox2
% --- Executes on button press in checkbox3.
function checkbox3_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox3
function edit10_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
```

```
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit10 as text
%        str2double(get(hObject,'String')) returns contents of edit10 as a double
% --- Executes during object creation, after setting all properties.
function edit10_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit11_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit11 as text
%        str2double(get(hObject,'String')) returns contents of edit11 as a double
% --- Executes during object creation, after setting all properties.
function edit11_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit12_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit12 as text
%        str2double(get(hObject,'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit12_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes just before zsjxygljsrj is made visible.
function zsjxygljsrj_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
```

```matlab
% varargin   command line arguments to zsjxygljsrj (see VARARGIN)
% Choose default command line output for zsjxygljsrj
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
% UIWAIT makes zsjxygljsrj wait for user response (see UIRESUME)
% uiwait(handles.figure1);
% --- Outputs from this function are returned to the command line.
function varargout = zsjxygljsrj_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;
% --- Executes on selection change in popupmenu1.
function popupmenu1_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu1 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu1
% --- Executes during object creation, after setting all properties.
function popupmenu1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit1_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit11 as text
%        str2double(get(hObject,'String')) returns contents of edit11 as a double
% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit2_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
```

```matlab
% Hints: get(hObject, 'String') returns contents of edit12 as text
%        str2double(get(hObject, 'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject, 'BackgroundColor'), get(0, 'defaultUicontrolBackgroundColor'))
    set(hObject, 'BackgroundColor', 'white');
end
function edit3_Callback(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject, 'String') returns contents of edit13 as text
%        str2double(get(hObject, 'String')) returns contents of edit13 as a double
% --- Executes during object creation, after setting all properties.
function edit3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject, 'BackgroundColor'), get(0, 'defaultUicontrolBackgroundColor'))
    set(hObject, 'BackgroundColor', 'white');
end
function edit4_Callback(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject, 'String') returns contents of edit14 as text
%        str2double(get(hObject, 'String')) returns contents of edit14 as a double
% --- Executes during object creation, after setting all properties.
function edit4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject, 'BackgroundColor'), get(0, 'defaultUicontrolBackgroundColor'))
    set(hObject, 'BackgroundColor', 'white');
end
function edit5_Callback(hObject, eventdata, handles)
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject, 'String') returns contents of edit15 as text
%        str2double(get(hObject, 'String')) returns contents of edit15 as a double
% --- Executes during object creation, after setting all properties.
function edit5_CreateFcn(hObject, eventdata, handles)
```

```
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit6_Callback(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit6 as text
%        str2double(get(hObject,'String')) returns contents of edit6 as a double
% --- Executes during object creation, after setting all properties.
function edit6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit7_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit7 as text
%        str2double(get(hObject,'String')) returns contents of edit7 as a double
% --- Executes during object creation, after setting all properties.
function edit7_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit8_Callback(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```matlab
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit9_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit9_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton1.
function edit14_Callback(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit14 as text
%        str2double(get(hObject,'String')) returns contents of edit14 as a double
% --- Executes during object creation, after setting all properties.
function edit14_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit16_Callback(hObject, eventdata, handles)
% hObject    handle to edit16 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit16 as text
%        str2double(get(hObject,'String')) returns contents of edit16 as a double
% --- Executes during object creation, after setting all properties.
function edit16_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit16 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```
end
function edit17_Callback(hObject, eventdata, handles)
% hObject    handle to edit17 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit17 as text
%        str2double(get(hObject,'String')) returns contents of edit17 as a double
% --- Executes during object creation, after setting all properties.
function edit17_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit17 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit31_Callback(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit6 as text
%        str2double(get(hObject,'String')) returns contents of edit6 as a double
% --- Executes during object creation, after setting all properties.
function edit31_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit32_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit7 as text
%        str2double(get(hObject,'String')) returns contents of edit7 as a double
% --- Executes during object creation, after setting all properties.
function edit32_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit33_Callback(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```matlab
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit33_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton4.
function text57_ButtonDownFcn(hObject, eventdata, handles)
% hObject    handle to pushbutton4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(gcf,'visible','off');
function edit1_Callback(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit1 as text
%        str2double(get(hObject,'String')) returns contents of edit1 as a double
% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in checkbox1.
function checkbox1_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox1
function edit34_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit34_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
```

```matlab
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit35_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit12 as text
%        str2double(get(hObject,'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit35_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit20_Callback(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit13 as text
%        str2double(get(hObject,'String')) returns contents of edit13 as a double
% --- Executes during object creation, after setting all properties.
function edit20_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit36_Callback(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit14 as text
%        str2double(get(hObject,'String')) returns contents of edit14 as a double
% --- Executes during object creation, after setting all properties.
function edit36_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```matlab
end
function edit37_Callback(hObject, eventdata, handles)
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit15 as text
%        str2double(get(hObject,'String')) returns contents of edit15 as a double
% --- Executes during object creation, after setting all properties.
function edit37_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit38_Callback(hObject, eventdata, handles)
% hObject    handle to edit16 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit16 as text
%        str2double(get(hObject,'String')) returns contents of edit16 as a double
% --- Executes during object creation, after setting all properties.
function edit38_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit16 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit21_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit11 as text
%        str2double(get(hObject,'String')) returns contents of edit11 as a double
% --- Executes during object creation, after setting all properties.
function edit21_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit22_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit12 as text
%        str2double(get(hObject,'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit22_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit23_Callback(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit13 as text
%        str2double(get(hObject,'String')) returns contents of edit13 as a double
% --- Executes during object creation, after setting all properties.
function edit23_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit24_Callback(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit14 as text
%        str2double(get(hObject,'String')) returns contents of edit14 as a double
% --- Executes during object creation, after setting all properties.
function edit24_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit14 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit25_Callback(hObject, eventdata, handles)
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit15 as text
%        str2double(get(hObject,'String')) returns contents of edit15 as a double
% --- Executes during object creation, after setting all properties.
```

```matlab
function edit25_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit15 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton8.
function pushbutton8_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in pushbutton9.
function pushbutton9_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in pushbutton1.
function pushbutton10_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in pushbutton2.
function pushbutton11_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in pushbutton3.
function edit49_Callback(hObject, eventdata, handles)
% hObject    handle to edit49 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit49 as text
%        str2double(get(hObject,'String')) returns contents of edit49 as a double
% --- Executes during object creation, after setting all properties.
function edit49_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit49 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit50_Callback(hObject, eventdata, handles)
% hObject    handle to edit50 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit50 as text
%        str2double(get(hObject,'String')) returns contents of edit50 as a double
```

```matlab
% --- Executes during object creation, after setting all properties.
function edit50_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit50 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit51_Callback(hObject, eventdata, handles)
% hObject    handle to edit51 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit51 as text
%        str2double(get(hObject,'String')) returns contents of edit51 as a double
% --- Executes during object creation, after setting all properties.
function edit51_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit51 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit52_Callback(hObject, eventdata, handles)
% hObject    handle to edit52 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit52 as text
%        str2double(get(hObject,'String')) returns contents of edit52 as a double
% --- Executes during object creation, after setting all properties.
function edit52_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit52 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit53_Callback(hObject, eventdata, handles)
% hObject    handle to edit53 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit53 as text
%        str2double(get(hObject,'String')) returns contents of edit53 as a double
% --- Executes during object creation, after setting all properties.
function edit53_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit53 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```matlab
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit41_Callback(hObject, eventdata, handles)
% hObject    handle to edit41 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit41 as text
%        str2double(get(hObject,'String')) returns contents of edit41 as a double
% --- Executes during object creation, after setting all properties.
function edit41_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit41 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in radiobutton1.
function radiobutton1_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton1
function edit42_Callback(hObject, eventdata, handles)
% hObject    handle to edit42 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit42 as text
%        str2double(get(hObject,'String')) returns contents of edit42 as a double
% --- Executes during object creation, after setting all properties.
function edit42_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit42 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit43_Callback(hObject, eventdata, handles)
% hObject    handle to edit43 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit43 as text
%        str2double(get(hObject,'String')) returns contents of edit43 as a double
% --- Executes during object creation, after setting all properties.
function edit43_CreateFcn(hObject, eventdata, handles)
```

```
% hObject    handle to edit43 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit44_Callback(hObject, eventdata, handles)
% hObject    handle to edit44 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit44 as text
%        str2double(get(hObject,'String')) returns contents of edit44 as a double
% --- Executes during object creation, after setting all properties.
function edit44_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit44 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit45_Callback(hObject, eventdata, handles)
% hObject    handle to edit45 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit45 as text
%        str2double(get(hObject,'String')) returns contents of edit45 as a double
% --- Executes during object creation, after setting all properties.
function edit45_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit45 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit61_Callback(hObject, eventdata, handles)
% hObject    handle to edit61 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit61 as text
%        str2double(get(hObject,'String')) returns contents of edit61 as a double
% --- Executes during object creation, after setting all properties.
function edit61_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit61 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```matlab
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit62_Callback(hObject, eventdata, handles)
% hObject    handle to edit62 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit62 as text
%        str2double(get(hObject,'String')) returns contents of edit62 as a double
% --- Executes during object creation, after setting all properties.
function edit62_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit62 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit63_Callback(hObject, eventdata, handles)
% hObject    handle to edit63 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit63 as text
%        str2double(get(hObject,'String')) returns contents of edit63 as a double
% --- Executes during object creation, after setting all properties.
function edit63_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit63 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit87_Callback(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit21 as text
%        str2double(get(hObject,'String')) returns contents of edit21 as a double
% --- Executes during object creation, after setting all properties.
function edit87_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
```

```matlab
function edit88_Callback(hObject, eventdata, handles)
% hObject    handle to edit22 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit22 as text
%        str2double(get(hObject,'String')) returns contents of edit22 as a double
% --- Executes during object creation, after setting all properties.
function edit88_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit22 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit79_Callback(hObject, eventdata, handles)
% hObject    handle to edit51 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit51 as text
%        str2double(get(hObject,'String')) returns contents of edit51 as a double
% --- Executes during object creation, after setting all properties.
function edit79_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit51 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit80_Callback(hObject, eventdata, handles)
% hObject    handle to edit52 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit52 as text
%        str2double(get(hObject,'String')) returns contents of edit52 as a double
% --- Executes during object creation, after setting all properties.
function edit80_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit52 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit81_Callback(hObject, eventdata, handles)
% hObject    handle to edit53 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
```

```matlab
% Hints: get(hObject,'String') returns contents of edit53 as text
%        str2double(get(hObject,'String')) returns contents of edit53 as a double
% --- Executes during object creation, after setting all properties.
function edit81_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit53 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit54_Callback(hObject, eventdata, handles)
% hObject    handle to edit54 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit54 as text
%        str2double(get(hObject,'String')) returns contents of edit54 as a double
% --- Executes during object creation, after setting all properties.
function edit54_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit54 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit55_Callback(hObject, eventdata, handles)
% hObject    handle to edit55 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit55 as text
%        str2double(get(hObject,'String')) returns contents of edit55 as a double
% --- Executes during object creation, after setting all properties.
function edit55_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit55 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit74_Callback(hObject, eventdata, handles)
% hObject    handle to edit31 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit31 as text
%        str2double(get(hObject,'String')) returns contents of edit31 as a double
% --- Executes during object creation, after setting all properties.
function edit74_CreateFcn(hObject, eventdata, handles)
```

```
% hObject    handle to edit31 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit75_Callback(hObject, eventdata, handles)
% hObject    handle to edit32 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit32 as text
%        str2double(get(hObject,'String')) returns contents of edit32 as a double
% --- Executes during object creation, after setting all properties.
function edit75_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit32 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit76_Callback(hObject, eventdata, handles)
% hObject    handle to edit33 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit33 as text
%        str2double(get(hObject,'String')) returns contents of edit33 as a double
% --- Executes during object creation, after setting all properties.
function edit76_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit33 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit77_Callback(hObject, eventdata, handles)
% hObject    handle to edit34 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit34 as text
%        str2double(get(hObject,'String')) returns contents of edit34 as a double
% --- Executes during object creation, after setting all properties.
function edit77_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit34 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit78_Callback(hObject, eventdata, handles)
% hObject    handle to edit35 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit35 as text
%        str2double(get(hObject,'String')) returns contents of edit35 as a double
% --- Executes during object creation, after setting all properties.
function edit78_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit35 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit64_Callback(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit21 as text
%        str2double(get(hObject,'String')) returns contents of edit21 as a double
% --- Executes during object creation, after setting all properties.
function edit64_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit65_Callback(hObject, eventdata, handles)
% hObject    handle to edit22 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit22 as text
%        str2double(get(hObject,'String')) returns contents of edit22 as a double
% --- Executes during object creation, after setting all properties.
function edit65_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit22 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
```

```matlab
function edit66_Callback(hObject, eventdata, handles)
% hObject     handle to edit23 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit23 as text
%        str2double(get(hObject,'String')) returns contents of edit23 as a double
% --- Executes during object creation, after setting all properties.
function edit66_CreateFcn(hObject, eventdata, handles)
% hObject     handle to edit23 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit67_Callback(hObject, eventdata, handles)
% hObject     handle to edit24 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit24 as text
%        str2double(get(hObject,'String')) returns contents of edit24 as a double
% --- Executes during object creation, after setting all properties.
function edit67_CreateFcn(hObject, eventdata, handles)
% hObject     handle to edit24 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on slider movement.
function slider1_Callback(hObject, eventdata, handles)
% hObject     handle to slider1 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'Value') returns position of slider
%        get(hObject,'Min') and get(hObject,'Max') to determine range of slider
% --- Executes during object creation, after setting all properties.
function slider1_CreateFcn(hObject, eventdata, handles)
% hObject     handle to slider1 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     empty - handles not created until after all CreateFcns called
% Hint: slider controls usually have a light gray background.
if isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor',[.9 .9 .9]);
end
function edit68_Callback(hObject, eventdata, handles)
% hObject     handle to edit25 (see GCBO)
% eventdata   reserved - to be defined in a future version of MATLAB
% handles     structure with handles and user data (see GUIDATA)
```

```
% Hints: get(hObject,'String') returns contents of edit25 as text
%        str2double(get(hObject,'String')) returns contents of edit25 as a double
% --- Executes during object creation, after setting all properties.
function edit68_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit25 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function initx_Callback(hObject, eventdata, handles)
% hObject    handle to initx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of initx as text
%        str2double(get(hObject,'String')) returns contents of initx as a double
% --- Executes during object creation, after setting all properties.
function initx_CreateFcn(hObject, eventdata, handles)
% hObject    handle to initx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function inity_Callback(hObject, eventdata, handles)
% hObject    handle to inity (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of inity as text
%        str2double(get(hObject,'String')) returns contents of inity as a double
% --- Executes during object creation, after setting all properties.
function inity_CreateFcn(hObject, eventdata, handles)
% hObject    handle to inity (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function targx_Callback(hObject, eventdata, handles)
% hObject    handle to targx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of targx as text
%        str2double(get(hObject,'String')) returns contents of targx as a double
% --- Executes during object creation, after setting all properties.
function targx_CreateFcn(hObject, eventdata, handles)
```

```matlab
% hObject    handle to targx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function targy_Callback(hObject, eventdata, handles)
% hObject    handle to targy (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of targy as text
%        str2double(get(hObject,'String')) returns contents of targy as a double
% --- Executes during object creation, after setting all properties.
function targy_CreateFcn(hObject, eventdata, handles)
% hObject    handle to targy (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function targz_Callback(hObject, eventdata, handles)
% hObject    handle to targz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of targz as text
%        str2double(get(hObject,'String')) returns contents of targz as a double
% --- Executes during object creation, after setting all properties.
function targz_CreateFcn(hObject, eventdata, handles)
% hObject    handle to targz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function initz_Callback(hObject, eventdata, handles)
% hObject    handle to initz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of initz as text
%        str2double(get(hObject,'String')) returns contents of initz as a double
% --- Executes during object creation, after setting all properties.
function initz_CreateFcn(hObject, eventdata, handles)
% hObject    handle to initz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function num_Callback(hObject, eventdata, handles)
% hObject    handle to num (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of num as text
%        str2double(get(hObject,'String')) returns contents of num as a double
% --- Executes during object creation, after setting all properties.
function num_CreateFcn(hObject, eventdata, handles)
% hObject    handle to num (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function xx_Callback(hObject, eventdata, handles)
% hObject    handle to xx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of xx as text
%        str2double(get(hObject,'String')) returns contents of xx as a double
% --- Executes during object creation, after setting all properties.
function xx_CreateFcn(hObject, eventdata, handles)
% hObject    handle to xx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function yy_Callback(hObject, eventdata, handles)
% hObject    handle to yy (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of yy as text
%        str2double(get(hObject,'String')) returns contents of yy as a double
% --- Executes during object creation, after setting all properties.
function yy_CreateFcn(hObject, eventdata, handles)
% hObject    handle to yy (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
```

```matlab
function zz_Callback(hObject, eventdata, handles)
% hObject    handle to zz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of zz as text
%        str2double(get(hObject,'String')) returns contents of zz as a double
% --- Executes during object creation, after setting all properties.
function zz_CreateFcn(hObject, eventdata, handles)
% hObject    handle to zz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function rx_Callback(hObject, eventdata, handles)
% hObject    handle to rx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of rx as text
%        str2double(get(hObject,'String')) returns contents of rx as a double
% --- Executes during object creation, after setting all properties.
function rx_CreateFcn(hObject, eventdata, handles)
% hObject    handle to rx (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function ry_Callback(hObject, eventdata, handles)
% hObject    handle to ry (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of ry as text
%        str2double(get(hObject,'String')) returns contents of ry as a double
% --- Executes during object creation, after setting all properties.
function ry_CreateFcn(hObject, eventdata, handles)
% hObject    handle to ry (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function rz_Callback(hObject, eventdata, handles)
% hObject    handle to rz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
```

```matlab
% Hints: get(hObject,'String') returns contents of rz as text
%        str2double(get(hObject,'String')) returns contents of rz as a double
% --- Executes during object creation, after setting all properties.
function rz_CreateFcn(hObject, eventdata, handles)
% hObject    handle to rz (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editshow_Callback(hObject, eventdata, handles)
% hObject    handle to editshow (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editshow as text
%        str2double(get(hObject,'String')) returns contents of editshow as a double
% --- Executes during object creation, after setting all properties.
function editshow_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editshow (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editn1_Callback(hObject, eventdata, handles)
% hObject    handle to editn1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editn1 as text
%        str2double(get(hObject,'String')) returns contents of editn1 as a double
% --- Executes during object creation, after setting all properties.
function editn1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editn1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editn2_Callback(hObject, eventdata, handles)
% hObject    handle to editn2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editn2 as text
%        str2double(get(hObject,'String')) returns contents of editn2 as a double
% --- Executes during object creation, after setting all properties.
function editn2_CreateFcn(hObject, eventdata, handles)
```

```
% hObject    handle to editn2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editn3_Callback(hObject, eventdata, handles)
% hObject    handle to editn3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editn3 as text
%        str2double(get(hObject,'String')) returns contents of editn3 as a double
% --- Executes during object creation, after setting all properties.
function editn3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editn3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editn4_Callback(hObject, eventdata, handles)
% hObject    handle to editn4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editn4 as text
%        str2double(get(hObject,'String')) returns contents of editn4 as a double
% --- Executes during object creation, after setting all properties.
function editn4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editn4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function editn5_Callback(hObject, eventdata, handles)
% hObject    handle to editn5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of editn5 as text
%        str2double(get(hObject,'String')) returns contents of editn5 as a double
% --- Executes during object creation, after setting all properties.
function editn5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editn5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
```

```
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu1.
function popupmenu1_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu1 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu1
function editn6_Callback(hObject, eventdata, handles)
% hObject    handle to editn6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit6 as text
%        str2double(get(hObject,'String')) returns contents of editn6 as a double
% --- Executes during object creation, after setting all properties.
function editn6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to editn6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton2.
function edit20_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit20 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit21_Callback(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit21 as text
%        str2double(get(hObject,'String')) returns contents of edit21 as a double
% --- Executes during object creation, after setting all properties.
function edit21_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit21 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```
end
function edit22_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit7 as text
%        str2double(get(hObject,'String')) returns contents of edit7 as a double
% --- Executes during object creation, after setting all properties.
function edit22_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit24_Callback(hObject, eventdata, handles)
% hObject    handle to edit24 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit24 as text
%        str2double(get(hObject,'String')) returns contents of edit24 as a double
% --- Executes during object creation, after setting all properties.
function edit24_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit24 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit25_Callback(hObject, eventdata, handles)
% hObject    handle to edit25 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit25 as text
%        str2double(get(hObject,'String')) returns contents of edit25 as a double
% --- Executes during object creation, after setting all properties.
function edit25_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit25 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit26_Callback(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```matlab
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit12 as text
%        str2double(get(hObject,'String')) returns contents of edit12 as a double
% --- Executes during object creation, after setting all properties.
function edit26_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit27_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit9 as text
%        str2double(get(hObject,'String')) returns contents of edit9 as a double
% --- Executes during object creation, after setting all properties.
function edit27_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit28_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit11 as text
%        str2double(get(hObject,'String')) returns contents of edit11 as a double
% --- Executes during object creation, after setting all properties.
function edit28_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit1_Callback(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit1 as text
%        str2double(get(hObject,'String')) returns contents of edit1 as a double
% --- Executes during object creation, after setting all properties.
```

```
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit5_Callback(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit5 as text
%        str2double(get(hObject,'String')) returns contents of edit5 as a double
% --- Executes during object creation, after setting all properties.
function edit5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit4_Callback(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit4 as text
%        str2double(get(hObject,'String')) returns contents of edit4 as a double
% --- Executes during object creation, after setting all properties.
function edit4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit32_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit10 as text
%        str2double(get(hObject,'String')) returns contents of edit10 as a double
% --- Executes during object creation, after setting all properties.
function edit32_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
```

```
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit33_Callback(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit8 as text
%        str2double(get(hObject,'String')) returns contents of edit8 as a double
% --- Executes during object creation, after setting all properties.
function edit33_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit6_Callback(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit6 as text
%        str2double(get(hObject,'String')) returns contents of edit6 as a double
% --- Executes during object creation, after setting all properties.
function edit6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit2_Callback(hObject, eventdata, handles)
% hObject    handle to edit2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit2 as text
%        str2double(get(hObject,'String')) returns contents of edit2 as a double
% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```matlab
end
function edit36_Callback(hObject, eventdata, handles)
% hObject    handle to edit36 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit36 as text
%        str2double(get(hObject,'String')) returns contents of edit36 as a double
% --- Executes during object creation, after setting all properties.
function edit36_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit36 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on mouse press over axes background.
function axes1_ButtonDownFcn(hObject, eventdata, handles)
% hObject    handle to axes1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
axes(handles.axes1)
function edit38_Callback(hObject, eventdata, handles)
% hObject    handle to edit38 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit38 as text
%        str2double(get(hObject,'String')) returns contents of edit38 as a double
% --- Executes during object creation, after setting all properties.
function edit38_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit38 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in pushbutton14.
function pushbutton17_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton17 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in pushbutton18.
% --- Executes on mouse press over axes background.
function axes2_ButtonDownFcn(hObject, eventdata, handles)
axes(handles.axes2)
% hObject    handle to axes2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
function edit40_Callback(hObject, eventdata, handles)
```

```matlab
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit4 as text
%        str2double(get(hObject,'String')) returns contents of edit4 as a double
% --- Executes during object creation, after setting all properties.
function edit40_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes during object creation, after setting all properties.
function popupmenu1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit2_Callback(hObject, eventdata, handles)
% hObject    handle to edit2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit2 as text
%        str2double(get(hObject,'String')) returns contents of edit2 as a double
% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit3_Callback(hObject, eventdata, handles)
% hObject    handle to edit3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit3 as text
%        str2double(get(hObject,'String')) returns contents of edit3 as a double
% --- Executes during object creation, after setting all properties.
function edit3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
```

```matlab
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit4_Callback(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit4 as text
%        str2double(get(hObject,'String')) returns contents of edit4 as a double
% --- Executes during object creation, after setting all properties.
function edit4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit5_Callback(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit5 as text
%        str2double(get(hObject,'String')) returns contents of edit5 as a double
% --- Executes during object creation, after setting all properties.
function edit5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function edit6_Callback(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit6 as text
%        str2double(get(hObject,'String')) returns contents of edit6 as a double
% --- Executes during object creation, after setting all properties.
function edit6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
```

```
end
function edit7_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit7 as text
%        str2double(get(hObject,'String')) returns contents of edit7 as a double
% --- Executes during object creation, after setting all properties.
function edit7_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in radiobutton2.
function radiobutton2_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton2
% --- Executes on button press in radiobutton3.
function radiobutton3_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton3
function handles = initializeGUIComponents(handles)
global ELEMENT_TOP;
ELEMENT_TOP = 300;
setImageToAxesWithAlpha(handles, 'gyrj.png', 'btn_text_1', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'wljc.png', 'btn_text_2', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'qcsj.png', 'btn_text_3', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'tc.png', 'btn_text_4', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'dr.png', 'btn_text_5', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'hz.png', 'btn_text_6', [1, 1, 1]);
setImageToAxesWithAlpha(handles, 'tx.png', 'btn_text_7', [1, 1, 1]);
set(handles.axes1, 'Visible', 'off');
set(handles.axes2, 'Visible', 'off');
set(handles.axes3, 'Visible', 'off');
set(handles.text26, 'String', '  土地资源可持续发展综合管理系统');
handles.uipanel2.Title = '土地使用管理';
handles.uipanel3.Title = '土地质量监测管理';
handles.uipanel4.Title = '土地使用计划设置';
handles.uipanel5.Title = '土地规划政策管理';
handles.uipanel6.Title = '土地开发利用评估';
set(handles.pushbutton8, 'String', '确认选择');
set(handles.pushbutton9, 'String', '保存信息');
set(handles.pushbutton10, 'String', '确认设置');
set(handles.pushbutton11, 'String', '保存信息');
```

```
set(handles.pushbutton12, 'String', '利用评估');
set(handles.text_btn_text_1, 'String', '导入土地资源可持续发展工艺流程图');
set(handles.text_btn_text_2, 'String', '绘制土地资源发展效果分析三维图');
set(handles.text_btn_text_3, 'String', '绘制土地开发利用分析柱状图');
unit_content = {'', '', '', '', '分'};
text_contents1 = {'城市建设用地', '农业用地', '林地', '草原', '湿地', '保护区', '未利用地'};

text_contents2 = {'土壤 pH 值', '有机质含量', '重金属污染', '盐碱化程度', '土地退化', '生物多样性',
'地表覆盖'};
text_contents3 = {'土地再分类', '土地整治', '土地开发', '土地批准', '土地利用监测', '环境影响评估',
'土地使用报告'};
text_contents4 = {'城市扩展限制', '农地保护区域', '林地补植要求', '水源保护区', '生态红线区', '土
地复垦指标', '土地使用效率'};
text_contents5 = {'开发潜力评估', '可持续性评估', '生态影响评估', '经济效益评估', '社会影响评估', '
资源消耗评估', '生物多样性影响'};

features1 = [
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
    struct('type', 'checkbox', 'fontSize', 12, 'width', 80, 'defaultValue', '选择', 'items', {{}},
'range', [], 'unit', '', 'unitFontSize', 14),...
];


features2 = [
    struct('type', 'popupmenu', 'items', {formatItems('6.5|7.0|7.5')}, 'width', 100, 'fontSize', 10,
'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('高|中|低')}, 'width', 100, 'fontSize', 10,
'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('铅|汞|镉')}, 'width', 100, 'fontSize', 10,
'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('轻度|中度|重度')}, 'width', 100, 'fontSize',
10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('水土流失|沙化|压实')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('高|中|低')}, 'width', 100, 'fontSize', 10,
'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('完整|破碎|裸露')}, 'width', 100, 'fontSize',
10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
];


features3 = [
    struct('type', 'popupmenu', 'items', {formatItems('农地|商业地|保护区')}, 'width', 100,
```

```
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('地形调整|土壤改良|排水改善')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('商业开发|住宅开发|工业开发')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('政府批准|私人批准|外资批准')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('卫星监测|地面监测|无人机监测')}, 'width',
100, 'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('低影响|中等影响|高影响')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
    struct('type', 'popupmenu', 'items', {formatItems('自动生成|手动提交')}, 'width', 100,
'fontSize', 10, 'range', [], 'defaultValue', '', 'unit', '', 'unitFontSize', 14),...
];


features4 = [
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', 'km', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '%', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', 'ha', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', 'km²', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '%', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', 'ha', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '%', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
];


features5 = [
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
    struct('type', 'edit', 'fontSize', 12, 'width', 60, 'unit', '分', 'unitFontSize', 14,
'defaultValue', '', 'items', {{}}, 'range', []),...
];
%  功能点名称创建（键）的调用方法
handles = createDynamicText(handles, handles.uipanel2, text_contents1, 14, 10, 39, [255, 255, 255],
[0, 0, 0]);
handles = createDynamicText(handles, handles.uipanel3, text_contents2, 14, 10, 39, [255, 255, 255],
```

```
[0, 0, 0]);
handles = createDynamicText(handles, handles.uipanel4, text_contents3, 14, 10, 39, [255, 255, 255],
[0, 0, 0]);
handles = createDynamicText(handles, handles.uipanel5, text_contents4, 14, 10, 39, [255, 255, 255],
[0, 0, 0]);
handles = createDynamicText(handles, handles.uipanel6, text_contents5, 14, 10, 39, [255, 255, 255],
[0, 0, 0]);
%  功能点值创建（值）的调用方法
handles = createUIComponents(handles, handles.uipanel2, features1, 39, 200, [255, 255, 255], [0, 0,
0]);
handles = createUIComponents(handles, handles.uipanel3, features2, 39, 160, [255, 255, 255], [0, 0,
0]);
handles = createUIComponents(handles, handles.uipanel4, features3, 39, 160, [255, 255, 255], [0, 0,
0]);
handles = createUIComponents(handles, handles.uipanel5, features4, 39, 160, [255, 255, 255], [0, 0,
0]);
handles = createUIComponents(handles, handles.uipanel6, features5, 39, 200, [255, 255, 255], [0, 0,
0]);
%  确认按钮哪一行最后是否带有单位的调用方法
handles = createUnitText(handles, {'uipanel2', 'uipanel3', 'uipanel4', 'uipanel5', 'uipanel6'}, 14,
unit_content, [255, 255, 255], [0, 0, 0]);
return;
function text68_ButtonDownFcn(hObject, eventdata, handles)
% hObject    handle to text_click (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
capture_and_draw('uipanel2', false, 'pushbutton8', 'uipanel2', false, 'tu1.png');
% --- Executes on button press in pushbutton8.
function pushbutton8_Callback(hObject, eventdata, handles)
% 模块 1
% hObject    handle to pushbutton8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.text38, 'String', 'OK');
pause(1);
capture_and_draw('uipanel2', true, 'pushbutton8', 'uipanel2', true, 'tu2.png');
% --- Executes on button press in pushbutton9.
function pushbutton9_Callback(hObject, eventdata, handles)
% 模块 2
% hObject    handle to pushbutton9 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.text39, 'String', '已保存');
pause(1);
capture_and_draw('uipanel3', true, 'pushbutton9', 'uipanel3', true, 'tu3.png');
% --- Executes on button press in pushbutton10.
function pushbutton10_Callback(hObject, eventdata, handles)
% 模块 3
% hObject    handle to pushbutton10 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.text40, 'String', '设置完成');
```

```matlab
pause(1);
capture_and_draw('uipanel4', true, 'pushbutton10', 'uipanel4', true, 'tu4.png');
% --- Executes on button press in pushbutton11.
function pushbutton11_Callback(hObject, eventdata, handles)
% 模块 4
% hObject    handle to pushbutton11 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.text41,'String','已保存');
pause(1);
capture_and_draw('uipanel5', true, 'pushbutton11', 'uipanel5', true, 'tu5.png');
% --- Executes on button press in pushbutton12.
function pushbutton12_Callback(hObject, eventdata, handles)
% 模块 5
% hObject    handle to pushbutton12 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
a=str2double(get(handles.uipanel6_edit1,'String'));
b=str2double(get(handles.uipanel6_edit2,'String'));
c=str2double(get(handles.uipanel6_edit3,'String'));
d=str2double(get(handles.uipanel6_edit4,'String'));
e=str2double(get(handles.uipanel6_edit5,'String'));
f=str2double(get(handles.uipanel6_edit6,'String'));
g=str2double(get(handles.uipanel6_edit7,'String'));
x=(a+b+c+d+e+f+g)/7;
y=sprintf('%2.2f%',x);
set(handles.text42,'String',y);
pause(1);
capture_and_draw('uipanel6', true, 'pushbutton12', 'uipanel6', true, 'tu6.png');
% --- Executes on button press in pushbutton5.
function text_btn_1_ButtonDownFcn(hObject, eventdata, handles)
% 模块 6
% hObject    handle to pushbutton5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
global image;
[filename,filepath]=uigetfile({'*.bmp;*.png;*.jpg;'},'选择图像');
if(isequal(filename,0)||isequal(filepath,0))
    return;
end
image = [filepath,filename];
im=imread(image);
axes(handles.axes1);
imshow(im);
title('土地资源可持续发展工艺流程图');
axes(handles.axes1);
set(handles.axes1, 'Visible', 'off');
drawnow; pause(1);
capture_and_draw('uipanel7', true, 'text_btn_text_1', 'uipanel12', true, 'tu7.png');
% --- Executes on button press in pushbutton6.
function text_btn_2_ButtonDownFcn(hObject, eventdata, handles)
% 模块 7
```

```matlab
% hObject    handle to pushbutton6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
axes(handles.axes2);
x_data = [1, 2, 3, 4, 5]; % 土地利用类型的数据, 例如 1-商业用地, 2-农业用地等
y_data = [10, 20, 30, 40, 50]; % 土地开发强度的数据
z_data = [75, 80, 85, 90, 95]; % 土地保护成效的数据
% 创建三维散点图
scatter3(handles.axes2, x_data, y_data, z_data, 'filled');
title(handles.axes2, '土地资源发展效果分析三维图');
xlabel(handles.axes2, '土地利用类型');
ylabel(handles.axes2, '土地开发强度');
zlabel(handles.axes2, '土地保护成效');
% 设置图形属性
grid(handles.axes2, 'on');  % 开启网格
colormap(handles.axes2, 'jet'); % 设置色彩映射
colorbar(handles.axes2);        % 显示颜色条
drawnow; pause(1);
capture_and_draw('uipanel8', true, 'text_btn_text_2', 'uipanel13', true, 'tu8.png');
% --- Executes on button press in pushbutton7.
function text_btn_3_ButtonDownFcn(hObject, eventdata, handles)
% 模块 8
% hObject    handle to pushbutton7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
axes(handles.axes3);
a=str2double(get(handles.uipanel6_edit1,'String'));
b=str2double(get(handles.uipanel6_edit2,'String'));
c=str2double(get(handles.uipanel6_edit3,'String'));
d=str2double(get(handles.uipanel6_edit4,'String'));
e=str2double(get(handles.uipanel6_edit5,'String'));
f=str2double(get(handles.uipanel6_edit6,'String'));
g=str2double(get(handles.uipanel6_edit7,'String'));
Y = [a;b;c;d;e;f;g];
ch=bar(Y,'m');
set(gca,'XTickLabel',{'开发潜力评估', '可持续性评估', '生态影响评估', '经济效益评估', '社会影响评估', '资源消耗评估', '生物多样性影响'});
set(gca,'XTickLabelRotation',25);
ylim([0,max(max(Y)+max(Y)*0.3)]);
title('土地开发利用分析柱状图');
drawnow; pause(1);
capture_and_draw('uipanel9', true, 'text_btn_text_3', 'uipanel14', true, 'tu9.png');
% --- Executes on button press in pushbutton1.
function text54_ButtonDownFcn(hObject, eventdata, handles)
% 模块 9
% hObject    handle to pushbutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
h = msgbox('土地资源可持续发展综合管理系统为用户提供了土地使用管理、土地质量监测管理、土地使用计划设置、土地规划政策管理、土地开发利用评估等功能。', '关于本软件','help');
jMsgBox = h.JavaFrame.getFigurePanelContainer.getComponent(0).getTopLevelAncestor;
jMsgBox.setAlwaysOnTop(true);
```

```matlab
figure(handles.figure1);
drawnow; pause(1);
capture_and_draw_msgbox(h, true, 'text64', 'uipanel11', true, 'tu10.png');
% --- Executes on button press in pushbutton2.
function text56_ButtonDownFcn(hObject, eventdata, handles)
% 模块 10
% hObject    handle to pushbutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
clearPanelUI(handles.uipanel2);
clearPanelUI(handles.uipanel3);
clearPanelUI(handles.uipanel4);
clearPanelUI(handles.uipanel5);
clearPanelUI(handles.uipanel6);
set(handles.text38,'String',[]);
set(handles.text39,'String',[]);
set(handles.text40,'String',[]);
set(handles.text41,'String',[]);
set(handles.text42,'String',[]);
axes(handles.axes1);
cla reset;
box on;
set(handles.axes1,'xtick',[]);
set(handles.axes1,'ytick',[]);
axes(handles.axes2);
cla reset;
box on;
set(handles.axes2,'xtick',[]);
set(handles.axes2,'ytick',[]);
axes(handles.axes3);
cla reset;
box on;
set(handles.axes3,'xtick',[]);
set(handles.axes3,'ytick',[]);
set(handles.axes1, 'Visible', 'off');
set(handles.axes2, 'Visible', 'off');
set(handles.axes3, 'Visible', 'off');
drawnow; pause(1);
capture_and_draw('uipanel9', false, 'text66', 'uipanel11', true, 'tu12.png');
capture_and_draw('uipanel9', false, 'text67', 'uipanel11', true, 'tu13.png');
function clearPanelUI(panelHandle)
% 清除文本输入框
editHandles = findall(panelHandle, 'Style', 'edit');
for i = 1:length(editHandles)
    set(editHandles(i), 'String', '');
end
% 清除下拉菜单
popupHandles = findall(panelHandle, 'Style', 'popupmenu');
for i = 1:length(popupHandles)
    set(popupHandles(i), 'Value', 1);
end
% 清除单选按钮
```

```matlab
radioHandles = findall(panelHandle, 'Style', 'radiobutton');
for i = 1:length(radioHandles)
    set(radioHandles(i), 'Value', 0);
end
% 清除复选框
checkboxHandles = findall(panelHandle, 'Style', 'checkbox');
for i = 1:length(checkboxHandles)
    set(checkboxHandles(i), 'Value', 0);
end
% 清除滑动条
sliderHandles = findall(panelHandle, 'Style', 'slider');
for i = 1:length(sliderHandles)
    minVal = get(sliderHandles(i), 'Min');
    set(sliderHandles(i), 'Value', minVal);
end
function handles = createDynamicText(handles, panelHandle, textContents, fontSize, offset, spacing, bgColor, fontColor)
    % 设置默认颜色为白色背景和黑色字体
    if nargin < 8
        fontColor = [0, 0, 0]; % 默认字体颜色：黑色
    else
        fontColor = fontColor ./ 255; % 将 RGB 255 转换为归一化值
    end
    if nargin < 7
        bgColor = [1, 1, 1]; % 默认背景颜色：白色
    else
        bgColor = bgColor ./ 255; % 将 RGB 255 转换为归一化值
    end
    global ELEMENT_TOP;
    for i = 1:length(textContents)
        temp = uicontrol('Style', 'text', 'String', textContents{i}, 'Visible', 'off', 'FontSize', fontSize);
        textWidth = temp.Extent(3) + 10;
        delete(temp);
        h = uicontrol('Parent', panelHandle, ...
                      'Style', 'text', ...
                      'String', textContents{i}, ...
                      'Position', [offset, ELEMENT_TOP - (i-1)*spacing, textWidth, 27], ...
                      'BackgroundColor', bgColor, ...
                      'ForegroundColor', fontColor, ...
                      'FontSize', fontSize);
        tag = sprintf('%s_%s%d', get(panelHandle, 'Tag'), 'text', i);
        handles.(tag) = h;
    end
function handles = createUnitText(handles, panelHandles, fontSize, textContents, bgColor, fontColor)
    % 设置默认颜色为白色背景和黑色字体
    if nargin < 6
        fontColor = [0, 0, 0]; % 默认字体颜色：黑色
    else
        fontColor = fontColor ./ 255; % 将 RGB 255 转换为归一化值
    end
    if nargin < 5
```

```matlab
            bgColor = [1, 1, 1]; % 默认背景颜色：白色
        else
            bgColor = bgColor ./ 255; % 将 RGB 255 转换为归一化值
        end
        for i = 1:length(textContents)
            if ~isempty(textContents{i})
                tag = sprintf('text%d', i + 37);
                set(handles.(tag), 'Units', 'pixels');
                position = get(handles.(tag), 'Position');
                temp = uicontrol('Style', 'text', 'String', textContents{i}, 'Visible', 'off', 'FontSize',
fontSize);
                textWidth = temp.Extent(3) + 10;
                delete(temp);
                h = uicontrol('Parent', handles.(panelHandles{i}), ...
                              'Style', 'text', ...
                              'String', textContents{i}, ...
                              'Position', [position(1) + position(3), position(2), textWidth, 27], ...
                              'FontSize', fontSize, ...
                              'BackgroundColor', bgColor, ...
                              'ForegroundColor', fontColor);
                unitTag = sprintf('%s_%s%d', get(handles.(panelHandles{i}), 'Tag'), 'text', i);
                handles.(unitTag) = h;
            end
        end
function items_cell = formatItems(input_str)
    if ~startsWith(input_str, '|')
        input_str = ['|' input_str];
    end
    items_list = strsplit(input_str, '|');
    items_cell = ['';  items_list(:)];
% UIWAIT makes Land_Resource_Sustainability_Management_System wait for user response (see UIRESUME)
% uiwait(handles.figure1);
function handles = createUIComponents(handles, panelHandle, features, spacing, offset, bgColor,
fontColor)
    if nargin < 7  % 如果没有提供字体色参数
        fontColor = [0, 0, 0]; % 默认字体色为黑色
    else
        fontColor = fontColor ./ 255; % 将 RGB 255 转换为归一化值
    end
    if nargin < 6  % 如果没有提供背景色参数
        bgColor = [1, 1, 1]; % 默认背景色为白色
    else
        bgColor = bgColor ./ 255; % 将 RGB 255 转换为归一化值
    end
    global ELEMENT_TOP;
    for i = 1:length(features)
        commonProperties = {'Parent', panelHandle, ...
                            'Position', [offset, ELEMENT_TOP - (i-1)*spacing, features(i).width,
27], ...
                            'BackgroundColor', bgColor, ...
                            'ForegroundColor', fontColor, ...
                            'FontSize', features(i).fontSize};
```

```matlab
            tag = sprintf('%s_%s%d',get(panelHandle, 'Tag'), features(i).type, i);
        switch features(i).type
            case 'edit'
                h      =     uicontrol(commonProperties{:},      'Style',      'edit',      'String',
features(i).defaultValue, 'Tag', tag);
                handles.(tag) = h;
                if ~isempty(features(i).unit)
                    temp = uicontrol('Style', 'text', 'String', features(i).unit, 'Visible', 'off',
'FontSize', features(i).unitFontSize);
                    textWidth = temp.Extent(3);
                    delete(temp);
                    unitTag = sprintf('%s_%s%d',get(panelHandle, 'Tag'), 'unitText', i);
                    hUnit = uicontrol('Parent', panelHandle, ...
                                    'Style', 'text', ...
                                    'Position', [offset + features(i).width, ELEMENT_TOP -
(i-1)*spacing, textWidth, 27], ...
                                    'FontSize', features(i).unitFontSize, ...
                                    'String', features(i).unit, ...
                                    'BackgroundColor', [1, 1, 1], ...
                                    'ForegroundColor', fontColor, ...
                                    'Tag', unitTag);
                    handles.(unitTag) = hUnit;
                end
            case 'popupmenu'
                h = uicontrol(commonProperties{:}, 'Style', 'popupmenu', 'String', features(i).items,
'Tag', tag);
                handles.(tag) = h;
            case 'slider'
                h = uicontrol(commonProperties{:}, 'Style', 'slider', 'Min', features(i).range(1),
'Max', features(i).range(2), 'Tag', tag);
                handles.(tag) = h;
            case 'radiobutton'
                h      =     uicontrol(commonProperties{:},      'Style',      'radiobutton',      'String',
features(i).defaultValue, 'Tag', tag);
                handles.(tag) = h;
            case 'checkbox'
                h      =     uicontrol(commonProperties{:},      'Style',      'checkbox',      'String',
features(i).defaultValue, 'Tag', tag);
                handles.(tag) = h;
            case 'text'
                h      =     uicontrol(commonProperties{:},      'Style',      'text',      'String',
features(i).defaultValue, 'Tag', tag);
                handles.(tag) = h;
        end
    end
function setImageToAxesWithAlpha(handles, imageName, axesTag, backgroundColor)
    % 构建图片路径 , 'Land_Resource_Sustainability_Management_System'  Administrati
    if isdeployed
        imagePath = fullfile(ctfroot, 'Administrati', 'snap_static', imageName);
    else
        imagePath = fullfile(pwd, 'snap_static', imageName);
    end
```

```matlab
    % 检查图片是否存在
    if ~exist(imagePath, 'file')
        error('Image file does not exist: %s', imagePath);
    end
    % 读取图片和 Alpha 通道
    [img, alpha] = imread(imagePath);
    % 如果 Alpha 通道存在，处理透明度
    if ~isempty(alpha)
        % 创建一个与原图像大小相同的纯色背景图像
        background = repmat(reshape(backgroundColor, [1, 1, 3]), [size(img, 1), size(img, 2), 1]);
        % 合成图像：将原图像与背景图像结合，考虑 Alpha 通道
        img = uint8(bsxfun(@times, double(img), double(alpha)/255) + bsxfun(@times,
double(background), (1 - double(alpha)/255)));
    end
    % 检查轴控件是否存在
    if isfield(handles, axesTag)
        axesHandle = handles.(axesTag);
        % 显示处理过的图像
        imshow(img, 'Parent', axesHandle);
        % 设置轴的外观
        set(axesHandle, 'Visible', 'off');
    else
        error('Axes not found: %s', axesTag);
    end
% 提取块注释
function comments = extractComments(filename, tag)
    fid = fopen(filename, 'r');
    if fid == -1
        error(['Cannot open file: ', filename]);
    end
    comments = {};
    inCommentBlock = false;
    foundTag = false;
    tempComment = {};
    tline = fgetl(fid);
    while ischar(tline)
        if ~inCommentBlock && contains(tline, '%{')
            inCommentBlock = true;
        elseif inCommentBlock && contains(tline, tag) && ~foundTag
            foundTag = true;
            tagPosition = strfind(tline, tag) + length(tag);
            restOfLine = strtrim(tline(tagPosition:end));
            if ~isempty(restOfLine)
                tempComment{end+1} = restOfLine;
            end
        elseif inCommentBlock && ~contains(tline, '%}')
            tempComment{end+1} = strtrim(tline);
        elseif inCommentBlock && contains(tline, '%}')
            inCommentBlock = false;
            if foundTag
                comments{end+1} = strsplit(strjoin(tempComment, ' '), ' ');
                foundTag = false;
```

```matlab
            end
            tempComment = {};
        end
        tline = fgetl(fid);
    end
    fclose(fid);
% 从块注释生成数据结构
function dataStructure = generateDataStructure(filename, tag)
    comments = extractComments(filename, tag);
    if isempty(comments)
        error('No comments found with the specified tag.');
    end
    dataStructure = comments{1};
function capture_and_draw(tagForBox, drawBox, tagForArrow, parentTagForArrow, drawArrow, filename)
    jFrame = get(handle(gcf), 'JavaFrame');
    jAxis = jFrame.fHG2Client.getWindow;
    output_folder = fullfile(pwd, 'snap_images');
    if ~exist(output_folder, 'dir')
        return;
    end
    robot = java.awt.Robot;
    position = jAxis.getLocationOnScreen;
    size = jAxis.getSize;
    offsetX = 7;
    offsetY = 0;
    widthOffset = 14;
    heightOffset = 7;
    rectangle = java.awt.Rectangle(position.x + offsetX, position.y + offsetY, ...
                                   size.width - widthOffset, size.height - heightOffset);
    capture = robot.createScreenCapture(rectangle);
    rgb = typecast(capture.getRGB(0, 0, capture.getWidth, capture.getHeight, [], 0, capture.getWidth), 'uint8');
    img = reshape(rgb, [4, capture.getWidth, capture.getHeight]);
    img = img(3:-1:1, :, :);
    img = permute(img, [3 2 1]);
    if drawBox
        hBox = findobj(gcf, 'Tag', tagForBox);
        boxPos = getpixelposition(hBox);
        adjustedBoxPos = [boxPos(1) - 5, size.height - boxPos(2) - boxPos(4) - 10, boxPos(3) + 10, boxPos(4) + 10];
        img = insertShape(img, 'Rectangle', adjustedBoxPos, 'Color', 'red', 'LineWidth', 3);
    end
    if drawArrow
        hArrow = findobj(gcf, 'Tag', tagForArrow);
        hParent = findobj(gcf, 'Tag', parentTagForArrow);
        parentPos = getpixelposition(hParent);
        arrowPos = getpixelposition(hArrow);
        adjustedX = arrowPos(1) + parentPos(1);
        adjustedY = size.height - (arrowPos(2) + parentPos(2) - arrowPos(4) - 50);
        arrowLength = 90;
        arrowThickness = 5;
        startPt = [adjustedX + arrowPos(3)/2, adjustedY - arrowLength];
```

```
        endPt = [adjustedX + arrowPos(3)/2, adjustedY];
        img = insertShape(img, 'Line', [startPt, endPt], 'Color', 'red', 'LineWidth',
arrowThickness);
        headWidth = 25;
        headLength = 25;
        headPt1 = [startPt(1) - headWidth/2, startPt(2) + headLength];
        headPt2 = [startPt(1) + headWidth/2, startPt(2) + headLength];
        img = insertShape(img, 'Line', [startPt, headPt1], 'Color', 'red', 'LineWidth',
arrowThickness);
        img = insertShape(img, 'Line', [startPt, headPt2], 'Color', 'red', 'LineWidth',
arrowThickness);
    end
    if isempty(filename)
        filename = sprintf('screenshot_%s.png', datestr(now, 'yyyy-mm-dd_HH-MM-SS'));
    end
    output_filename = fullfile(output_folder, filename);
    imwrite(img, output_filename);
function capture_and_draw_msgbox(msgboxHandle, drawBox, tagForArrow, parentTagForArrow, drawArrow,
filename)
    jFrame = get(handle(gcf), 'JavaFrame');
    jAxis = jFrame.fHG2Client.getWindow;
    output_folder = fullfile(pwd, 'snap_images');
    if ~exist(output_folder, 'dir')
        return;
    end
    robot = java.awt.Robot;
    position = jAxis.getLocationOnScreen;
    size = jAxis.getSize;
    offsetX = 7;
    offsetY = 0;
    widthOffset = 14;
    heightOffset = 7;
    rectangle = java.awt.Rectangle(position.x + offsetX, position.y + offsetY, ...
                                    size.width - widthOffset, size.height - heightOffset);
    capture = robot.createScreenCapture(rectangle);
    rgb = typecast(capture.getRGB(0, 0, capture.getWidth, capture.getHeight, [], 0, capture.getWidth),
'uint8');
    img = reshape(rgb, [4, capture.getWidth, capture.getHeight]);
    img = img(3:-1:1, :, :);
    img = permute(img, [3 2 1]);
    if drawBox
        jMsgbox = get(msgboxHandle, 'JavaFrame');
        jMsgboxWindow = jMsgbox.fHG2Client.getWindow;
        msgboxPos = jMsgboxWindow.getLocationOnScreen;
        msgboxSize = jMsgboxWindow.getSize;
        adjustedBoxPos = [msgboxPos.x - position.x - 10, msgboxPos.y - position.y - 8, msgboxSize.width
+ 10 , msgboxSize.height + 10];
        img = insertShape(img, 'Rectangle', adjustedBoxPos, 'Color', 'red', 'LineWidth', 3);
    end
    if drawArrow
        hArrow = findobj(gcf, 'Tag', tagForArrow);
        hParent = findobj(gcf, 'Tag', parentTagForArrow);
```

```
        parentPos = getpixelposition(hParent);
        arrowPos = getpixelposition(hArrow);
        adjustedX = arrowPos(1) + parentPos(1);
        adjustedY = size.height - (arrowPos(2) + parentPos(2) - arrowPos(4) - 50);
        arrowLength = 90;
        arrowThickness = 5;
        startPt = [adjustedX + arrowPos(3)/2, adjustedY - arrowLength];
        endPt = [adjustedX + arrowPos(3)/2, adjustedY];
        img = insertShape(img, 'Line', [startPt, endPt], 'Color', 'red', 'LineWidth',
arrowThickness);
        headWidth = 25;
        headLength = 25;
        headPt1 = [startPt(1) - headWidth/2, startPt(2) + headLength];
        headPt2 = [startPt(1) + headWidth/2, startPt(2) + headLength];
        img = insertShape(img, 'Line', [startPt, headPt1], 'Color', 'red', 'LineWidth',
arrowThickness);
        img = insertShape(img, 'Line', [startPt, headPt2], 'Color', 'red', 'LineWidth',
arrowThickness);
    end
% 保存截图
if isempty(filename)
    filename = sprintf('screenshot_%s.png', datestr(now, 'yyyy-mm-dd_HH-MM-SS'));
end
output_filename = fullfile(output_folder, filename);
imwrite(img, output_filename);
% --- Executes on button press in radiobutton4.
function radiobutton4_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton4
% --- Executes on button press in radiobutton5.
function radiobutton5_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton5
% --- Executes on button press in radiobutton6.
function radiobutton6_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton6
% --- Executes on button press in radiobutton7.
function radiobutton7_Callback(hObject, eventdata, handles)
% hObject    handle to radiobutton7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of radiobutton7
% --- Executes on selection change in popupmenu2.
function popupmenu2_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu2 (see GCBO)
```

```matlab
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu2 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu2
% --- Executes during object creation, after setting all properties.
function popupmenu2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu3.
function popupmenu3_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu3 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu3
% --- Executes during object creation, after setting all properties.
function popupmenu3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu4.
function popupmenu4_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu4 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu4
% --- Executes during object creation, after setting all properties.
function popupmenu4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu5.
function popupmenu5_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu5 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu5
% --- Executes during object creation, after setting all properties.
function popupmenu5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu6.
function popupmenu6_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu6 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu6
% --- Executes during object creation, after setting all properties.
function popupmenu6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu7.
function popupmenu7_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu7 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu7
% --- Executes during object creation, after setting all properties.
function popupmenu7_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on selection change in popupmenu8.
function popupmenu8_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
```

```
% Hints: contents = cellstr(get(hObject,'String')) returns popupmenu8 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from popupmenu8
% --- Executes during object creation, after setting all properties.
function popupmenu8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu8 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: popupmenu controls usually have a white background on Windows.
%        See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in checkbox2.
function checkbox2_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox2
% --- Executes on button press in checkbox3.
function checkbox3_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox3
% --- Executes on button press in checkbox4.
function checkbox4_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox4
% --- Executes on button press in checkbox5.
function checkbox5_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox5
% --- Executes on button press in checkbox6.
function checkbox6_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox6 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox6
% --- Executes on button press in checkbox7.
function checkbox7_Callback(hObject, eventdata, handles)
% hObject    handle to checkbox7 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of checkbox7
% --- Executes during object creation, after setting all properties.
function uipanel2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to uipanel2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
```

```matlab
% handles    empty - handles not created until after all CreateFcns called
% --- Executes during object creation, after setting all properties.
function text1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to text1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% --- Executes when uipanel3 is resized.
function uipanel3_SizeChangedFcn(hObject, eventdata, handles)
% hObject    handle to uipanel3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on mouse press over figure background, over a disabled or
% --- inactive control, or over an axes background.
function figure1_WindowButtonDownFcn(hObject, eventdata, handles)
% hObject    handle to figure1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on selection change in listbox1.
function listbox1_Callback(hObject, eventdata, handles)
% hObject    handle to listbox1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: contents = cellstr(get(hObject,'String')) returns listbox1 contents as cell array
%        contents{get(hObject,'Value')} returns selected item from listbox1
% --- Executes during object creation, after setting all properties.
function listbox1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to listbox1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: listbox controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes during object creation, after setting all properties.
function text56_CreateFcn(hObject, eventdata, handles)
% hObject    handle to text56 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
end
```