Proteus 教程 2——修改元件

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我们可以修改 Proteus 中的元件,比如把 74LS373 改成.bus 接口的



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3. 修改引脚属性

说明:①为 GND, PIN10;②为 D[0..7];③为 OE, PIN1;④为 LE, PIN11;⑤为 VCC, PIN20;⑥为 Q[0..7]。

先右击后左击①,在出现的对话框中输入下面数据;⑤是类似的。GND、VCC 需要隐藏,故 Draw body 不选。

🕫 Edit Pin ? 🔀	🕫 Edit Pin 🔹 💽
Pin Name: GND Default Pin Numbe 10	Pin Name: VCC Default Pin Numbe 20
Draw body? □ Draw name? ☑ Rotate Pin Name? □ Draw number? ☑ Rotate Pin Number? □	Draw body? □ Draw name? ✓ Rotate Pin Name? Draw number? ✓ Rotate Pin Number?
Electrical Type: PS · Passive TS · Iristate PU · Pull-up OP · Output PD · Pull-down 10 · Bidirectiona PP · Power Pin OK Cancel	Electrical Type: PS - Passive TS - Iristate PU - Pull-up OP - Output PD - Pull-down 10 - Bidirectiona PP - Power Pins OK Cancel

先右击后左击②,在出现的对话框中输入下面数据;⑥是类似的

55 Edit Pin ?		55 Edit Pin ? 🔀
Pin <u>N</u> ame: D[07] Default Pin N <u>u</u> mber:		Pin <u>Name:</u> Q[07] Default Pin N <u>u</u> mber:
Draw body? ✓ Draw name? ✓ Rotate Pin Name? Draw number? ✓ Rotate Pin Number?		Draw body? ✓ Draw name? ✓ Rotate Pin Name? ✓ Draw number? ✓ Rotate Pin Number? ✓
Electrical Type:	_	Electrical Type:
PS - Passive TS - Iristate IP - Input PU - Pull-up OP - Output PD - Pull-down IO - Bidirectiona PP - Power Pin		PS - <u>P</u> assive TS - <u>T</u> ristate IP - <u>I</u> nput PU - Pull- <u>up</u> OP - <u>O</u> utput PD - Pull-down IO - <u>B</u> idirectiona PP - Power Pin
OK Cano	el	OK Cancel

先右击后左击③,在出现的对话框中输入下面数据;④是类似的

55 Edit Pin 🛛 🕐 🔀	🕫 Edit Pin 🛛 🕐 🔀
Pin <u>N</u> ame: \$0E\$ Default Pin Numbe 1	Pin <u>N</u> ame: LE Default Pin N <u>u</u> mbe 11
Draw body? ▼ Draw name? ▼ Rotate Pin Name? ■ Draw numbe <u>r</u> ? ▼ Rotate Pin Number? ■	Draw body? ✔ Draw name? ✔ Rotate Pin Name? Draw number? ✔ Rotate Pin Number? ✔
Electrical Type: PS - Passive TS - Iristate PU - Pull-up OP - Output PD - Pull-down IO - Bidirectiona PP - Power Pin	Electrical Type: PS - Passive TS - Iristate PU - Pull-up OP - Output PD - Pull-down IO - Bidirectiona PP - Power Pin
OK Cancel	OK Cancel

最终效果



4. 添加中心点





中心点的位置可任意放。

5. 封状入库

先用右键选择整个元件



然后,选择菜单"Library"→"Make Device",出现下面对话框,并输入下面内容

isis	5 Take Device ?	<
0	Device Properties	
	General Properties:	
	Enter the name for the device and the component reference prefix.	
	Device Name: 74LS373.BUS	
	Reference Prefi <u>x</u> : U	
	Enter the name of any external module file that you want attached to the device when it	
	External <u>M</u> odule:	
	Active Component Properties:	
	Enter properties for component animation. Please refer to the Proteus VSM SDK for more	
	Symbol Name Ster	
	No. of States: 0	
	Bitwise States?	
	Link to DLL?	
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Next,选择 PCB 封装,可不管他

Packagings
There are no PCB packagings defined for this device. Use the Add/Edit button to assign one or more packagings to the device. You can then select the appropriate packaging by
The device has no packagings to preview.
Add/E dit
Help <back next=""> OK Cancel</back>

Next,设置元件的参数

^{isis} lak e Device		? 🛛			
Component Properties & Definitions					
Use the New and Delete keys to used to specify packaging for PC information such as stock-codes a	Use the New and Delete keys to add/remove properties to the device. Properties can be used to specify packaging for PCB layout and parameters for simulator models, as well as information such as stock-codes and components costs.				
	<u>N</u> ame: Des <u>c</u> ription: <u>T</u> ype:	Property Definition:			
	<u>T</u> ype:	Normal			
× ×	Default <u>V</u> alue:	(None)			
New Delete	⊻isibility:	Hide Name & Value			
Apply Default Properties to Components in Old Designs					
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我们需要添加两个属性: {ITFMOD=TTLLS}、{MODFILE=74XX373.MDF}

单击 New, used to specify packaging for

Blank Item	ock-cod
	~
ITFMOD	
MODDLL	
MODEL	
MODFILE	
PACKAGE	1 1
PINSWAP	-
PRIMITIVE	
SPICEFILE	
SPICELIB	+
SPICEMODEL	
SPICEPINS	
STATE	
VALUE	ele
	_

Apply Default Properties to

isis Make Device		? 🔀		
Component Properties & Definitions				
Use the New and Delete keys to add/remove properties to the device. Properties can be used to specify packaging for PCB layout and parameters for simulator models, as well as information such as stock-codes and components costs.				
	<u>N</u> ame:	Property Definition: ITFMOD		
	Des <u>c</u> ription:	Interface Model		
	<u>Т</u> уре:	String 💌		
Ľ	<u>Т</u> уре:	Hidden		
	·	Property Defaults:		
× *	Default <u>V</u> alue:	TTLLS		
New Delete	⊻isibility:	Hide Name & Value 💌		
Apply Default Properties to Components in Old Designs				
<u>H</u> elp <u>≺</u> Back Next <u>></u> <u></u> K <u>C</u> ancel				

再单击 New

^{isis} Make Device		28		
Component Properties & Definitions				
Use the New and Delete keys to add/remove properties to the device. Properties can be used to specify packaging for PCB layout and parameters for simulator models, as well as information such as stock-codes and components costs.				
ITFMOD 🔼		Property Definition:		
×	<u>N</u> ame:	MODFILE		
	Des <u>c</u> ription:	LISA Model File		
	<u>T</u> ype:	String		
▼	Tupe:	Bead Only		
T		Property Defaults:		
✓	Default <u>V</u> alue:	74××373.MDF		
New Delete	∐isibility:	Hide Name & Value 💌		
Apply Default Properties to Cor	mponents in Old [Design:		

Next, 这不用理

isis IIake Dev:	ice 🤶 🏹				
Device Data Sheet & Help File					
You can link yo then be access	ur device to a data sheet (Acrobat .PDF file) and/or a help file. These can ed via special buttons on the 'Edit Component' dialogue form. Data Sheet:				
<u>D</u> ata Sheet Fi	ilenar 🖸 🔄				
FTP <u>S</u> erver:					
ETP Path:					
FTP <u>U</u> ser Id:					
FTP <u>P</u> asswor	d:				
CD <u>T</u> itle:					
<u>C</u> D Path:					
	Help Topic:				
<u>H</u> eip File:					
Conte <u>s</u> t Num					
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Next,选择元件存放位置,默认是放在 USERDVC 中的,左边是选择类别,最好自己 新建一个,如 mylib。

ⁱ⁵⁵ Make Device	? 🛛
Indexing and Library Selection	
Device <u>C</u> ategory: mylib	Save Device To <u>L</u> ibrary: USERDVC
Device <u>S</u> ub-category: (None)	
Device <u>M</u> anufacturer: (None)	
Device <u>D</u> escription:	
Advanced Mode (Edit Fields Manually)	
Device Notes:	
Help <u>K</u> Back Next	<u>D</u> K <u>C</u> ancel

到此为止已经完成元件修改。你可用库管理器自己的元件。

^{isis} Devices	Libraries	Lanager						? 🗙
Dest'n (Read or 74ALS00 74ALS00.DM 74ALS00.IEC 74ALS01.DM 74ALS01.DM 74ALS01.IEC 74ALS02 74ALS02.DM 74ALS02.IEC 74ALS03.IEC 74ALS03.IEC 74ALS04.IEC 74ALS05.DM 74ALS05.DM 74ALS05.DM 74ALS05.IEC 74ALS08.DM 74ALS08.IEC	74ALS09 74ALS09.DM 74ALS09.DM 74ALS10.DM 74ALS10.IEC 74ALS10.IEC 74ALS11.IEC 74ALS11.IEC 74ALS12.DM 74ALS12.IEC 74ALS15.DM 74ALS15.IEC 74ALS15.IEC 74ALS15.IEC 74ALS20.DM 74ALS20.IEC 74ALS21.DM	74ALS21.IEC 74ALS22 74ALS22DM 74ALS22.IEC 74ALS28DM 74ALS28.DM 74ALS28.IEC 74ALS30DM 74ALS30.IEC 74ALS32DM 74ALS32.DM 74ALS32.IEC 74ALS33DM 74ALS33.IEC 74ALS34 74ALS34.DM 74ALS34.IEC 74ALS35	74 74 74 74 74 74 74 74 74 74 74 74 74 7	Order Select All Unselect All Copy Items Move Items Delete Items Rename Item Information	Source: USERDVC 74LS373.BUS			
<			>		<			>
230 Items (970 Free). 1 Items (999 Free).								
Dump Library ADI Library Backup Libraries Create Library								lp
Delete Library Pack Library File Attribute Clos								se