

# LS-DYNA 求解器安裝教程

### 新科益系统与咨询(上海)有限公司



安装时,请按照下面的步骤安装最新的lstc-winsuite安装包。 会自动装好最新的求解器版本R12.1.

如果是做纯结构冲击、碰撞,建议使用目前LS-DYNA最稳定的版本R931,其他的新功能或多物理场建议使用最新版,或者最新的dev版。



# / 计算电脑上的license配置(windows版)

### windows计算电脑安装完lstc-winsuit安装包后, 会有LS-RUN任务提交软件。



双击该图标



### 计算电脑上的license配置(windows版)

File Settings License Manuals Help	1	- 🗆 X		
INPUT D:\1q LS-DYNA License gZhiXuan\temp2\test4.k		PU 4 ~ 4 ~		
SOLVEI LS-DYNA License		×		
LS-DYI     LS-DYNA License Settings       Preset     License type       Expres     Network       Previe     Server hostname	-2 - 3 ⊠ S	4 et env. Remove env.	备注: (如果同一 license, a.请确 b.ls-dyna所用的电 c.防火墙关闭)	-网络中其他电脑取不到 保网络通畅, 3脑的31010端口需要开启
Node Locked lic. File				
Job T. Request License Adm. License License Info Jobs	LS-DYNA License	tings		×
ID No programs running No programs queued	License type	Network ~		Set env. Remove env.
45	Server hostname	127.0.01		
44	Node Locked lic. File	5		
43	Request License Ad	m. License License Info Jobs		
42	License server: 1	27.0.01		6 ^
41	LICENSE INFORMATI	ON		
40	PROGRAM	EXPIRATION CPUS USED FREE	MAX QUEUE	
	MPPDYNA MPPDYNA_971 MPPDYNA_970 MPPDYNA_960 LS-DYNA LS-DYNA_971	06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12           06/24/2119         0         12	12 0 12 0 12 0 12 0 12 0 12 0 12 0	
<ul> <li>□ 在第二步选择network</li> <li>□ 第三步请填上license服务器的IP地址</li> <li>□ 第四步打勾</li> </ul>	LS-DYNA_970 LS-DYNA_960	06/24/2119 0 12 06/24/2119 0 12 LICENSE GROUP 0 12	12 0 12 0 12 0	
□ 第五步查看license信息,出现6所示的信息就代表	VENDOR LICENSES			
license女装成切,可以计昇了。	NO VENDOR LICENSE	DATA FOUND		

(图中IP地址填127.0.0.1,是因为计算电脑和license服务电脑是同一台电脑)







### 「添加指定版本的LS-DYNA(windows)

在最新版的LS-DYNA能运行计算后,用户有时希望添加旧的LS-DYNA版本,比如稳定版R9.3, 需要到<u>ftp.lstc.com/user</u>/lstc-winsuite/add-on/ 如左图所示, 用户名user 密码computer 进行相应版本的下载安装。

← → C 🌲 https://ftp.lstc.com/user/lstc-winsuite/add-on/

### Index of /user/lstc-winsuite/add-on

Name	<u>Last modif</u>	<u>ied</u>	<u>Size</u>
Parent Directory			-
LS-DYNA_R9.2-win-x64-installer_installer.exe	2018-03-19 1	13:57	293M
LS-DYNA_R9.3-win-x64-installer_installer.exe	2018-11-08 0	08:32	276M
LS-DYNA_R10.1-win-x64-installer_installer.exe	2018-03-19 1	13:51	291M
LS-DYNA_R11.0-win-x64-installer_installer.exe	2018-11-07 1	17:09	327M
LS-DYNA_R11.1-win-x64-installer_installer.exe	2019-09-03 (	07:33	351M

左图中没有想要的版本的话,请翻到下一页。



# 添加指定版本的LS-DYNA(windows)

1.如果上一页没有需要的版本,请到<u>ftp.lstc.com/user/mppdyna</u>下载mpp版本

ftp.lstc.com/user/lsdyna 下载smp版本,

进行相应版本的下载安装。

 $\leftarrow \rightarrow$  C a https://ftp.lstc.com/user/ls-dyna/

#### Index of /user/mpp-dyna

用户名user 密码computer

C https://ftp.lstc.com/user/mpp-dyna/

#### Index of /user/ls-dyna

<u>Name</u>	Last modified	<u>Size</u>	<u>Name</u>	Last modified Siz	<u>e</u>
Parent Directo	<u>ory</u>	_	Parent Direct	<u>:ory</u>	_
<u>R7.0.0/</u>	2017-10-18 18:30	-	<u>R7.0.0/</u>	2020-06-12 12:13	-
<u>R7.0.1/</u>	2017-10-18 18:30	-	<u>R7.0.1/</u>	2018-09-09 15:46	-
<u>R7.1.1/</u>	2020-09-22 09:39	-	<u>R7.1.1/</u>	2020-06-12 12:18	-
<u>R7.1.2/</u>	2017-10-18 18:30	-	<u>R7.1.2/</u>	2019-08-16 13:57	-
<u>R7.1.3/</u>	2020-08-13 07:54	-	<u>R7.1.3/</u>	2017-10-18 18:30	-
<u>R8.0.0/</u>	2017-10-18 18:30	-	<u>R8.0.0/</u>	2017-10-18 18:30	-
R8.1/	2017-10-18 18:30	_	<u>R8.1.0/</u>	2017-10-18 18:30	-
R9.0.1/	2017-10-18 18:30	-	<u>R9.0.1/</u>	2017-10-18 18:30	-
R9.0/	2017-10-18 18:30	_	<u>R9.0/</u>	2017-10-18 18:30	-
R9.1.0/	2018-03-22 18:10	_	<u>R9.1.0/</u>	2017-10-18 18:30	-
R9 2 0/	2017-10-18 18:30	_	<u>R9.2.0/</u>	2018-12-05 08:48	-
R930/	2019-03-11 15:48	_	<u>R9.3.0/</u>	2020-08-29 14:49	-
R931/	2020-05-18 08:11	_	<u>R9.3.1/</u>	2020-06-12 12:11	-
R10.0.0/	2017-10-18 18:30	_	<u>R10.0.0/</u>	2017-11-16 14:00	-
P10.0/	2017-10-18 18:30	_	<u>R10.1.0/</u>	2018-08-23 13:16	-
R10.0/	2017-10-10 10.30		<u>R10.2.0/</u>	2020-05-14 10:04	-
<u>R10.1.0/</u>	2010-00-23 13.20	-	<u>R11.0.0/</u>	2019-01-10 10:22	-
<u>R10.2.0/</u>	2019-08-14 07:53	-	<u>R11.1.0/</u>	2020-06-23 15:54	-
<u>R11.0.0/</u>	2020-06-26 11:01	-	<u>R12.0.0/</u>	2020-08-19 08:56	-
<u>RTT.T.0/</u>	2020-06-26 11:02	-	<u>ls960/</u>	2004-03-29 12:51	-
<u>R12.0.0/</u>	2020-11-24 11:56	-	<u>ls970/</u>	2008-07-02 07:40	-

2.点击选择指定版本,如下图,选择win64

#### Index of /user/mpp-dyna/R7.1.3

<u>Name</u>	Last modified	<u>Size</u>
Parent Directory	1	-
README.first.txt	2016-05-24 08:11	11K
README.txt	2016-05-20 15:43	782
<u>cray/</u>	2020-09-22 09:39	-
<u>ia64/</u>	2020-09-22 09:39	-
<u>mac_osx/</u>	2020-09-22 09:39	-
<u>sgi/</u>	2020-09-22 09:39	-
<u>sgi_x86-64/</u>	2016-05-10 08:54	-
<u>win64/</u>	2020-09-22 09:39	-
<u>x86-64/</u>	2016-05-10 13:48	-

3.如果是smp,直接下载,如果是mpp, 点击选择msmpi的版本 Index of /user/mpp-dyna/R7.1.3/win64



### 添加指定版本的LS-DYNA(windows)

4.下载好之后,双击进行安装,在如下图所示的第2步中将路径选择为lstc-winsuite的安装目录LS-DYNA文件夹下面即可(lstc-womsiote的默认安装目录为:C:\Program Files\LSTC\LS-DYNA)。

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Version March 31, 2020 ENSEE HAS PREVIOUSLY AGREED IN WRITING TO A SOFTWARE AGREEMENT WITH LICENSOR THAT SPECIFICALLY GOVERNS USE OF GRAM(S), SUCH SOFTWARE LICENSE AGREEMENT SUPERSEDES AND STUE CLICKWARD SOFTWARE LICENSE AGREEMENT AND THE	Version March 31, 2020 F LICENSEE HAS PREVIOUSLY AGREED IN WRITING TO A SOFTWARE NSE AGREEMENT WITH LICENSOR THAT SPECIFICALLY GOVERNS USE OF PROGRAM(S), SUCH SOFTWARE LICENSE AGREEMENT SUPERSEDES AND ACES THIS CLICKWRAP SOFTWARE LICENSE AGREEMENT, AND THIS KWRAP SOFTWARE LICENSE AGREEMENT IS VOID.*** u have a previous written software license agreement as described in	Version March 31, 2020 IF LICENSEE HAS PREVIOUSLY AGREED IN WRITING TO A SOFTWARE ENSE AGREEMENT WITH LICENSOR THAT SPECIFICALLY GOVERNS USE OF PROGRAM(S), SUCH SOFTWARE LICENSE AGREEMENT SUPERSEDES AND PLACES THIS CLICKWRAP SOFTWARE LICENSE AGREEMENT, AND THIS CKWRAP SOFTWARE LICENSE AGREEMENT IS VOID.*** ou have a previous written software license agreement as described in preceding paragraph, you may proceed with installation by clicking the "I REE" button (or the button below otherwise indicating your agreement to terms).	Version March 31, 2020 IF LICENSEE HAS PREVIOUSLY AGREED IN WRITING TO A SOFTWARE ENSE AGREEMENT WITH LICENSOR THAT SPECIFICALLY GOVERNS USE OF PROGRAM(S), SUCH SOFTWARE LICENSE AGREEMENT SUPERSEDES AND LACES THIS CLICKWRAP SOFTWARE LICENSE AGREEMENT, AND THIS CKWRAP SOFTWARE LICENSE AGREEMENT IS VOID.*** Du have a previous written software license agreement as described in preceding paragraph, you may proceed with installation by clicking the "I REE" button (or the button below otherwise indicating your agreement to terms). TWITHSTANDING THE FOREGOING OR ANY TERM OF A WRITTEN TWARE LICENSE AGREEMENT, OTHER THAN A NEW TECHNOLOGY	CLICKWRAP SOFTWARE LICENSE AGREEMENT	^	Desination Folder: C:\Program Files\LSTC\LS-DYNA
STHIS CLICKWRAP SOFTWARE LICENSE AGREEMENT, AND THIS	wRAP SOFTWARE LICENSE AGREEMENT IS VOID.***         u have a previous written software license agreement as described in	ICKWRAP SOFTWARE LICENSE AGREEMENT IS VOID.*** you have a previous written software license agreement as described in preceding paragraph, you may proceed with installation by clicking the "I iREE" button (or the button below otherwise indicating your agreement to pterms).	CKWRAP SOFTWARE LICENSE AGREEMENT IS VOID.*** Du have a previous written software license agreement as described in preceding paragraph, you may proceed with installation by clicking the "I REE" button (or the button below otherwise indicating your agreement to terms). TWITHSTANDING THE FOREGOING OR ANY TERM OF A WRITTEN TWARE LICENSE AGREEMENT, OTHER THAN A NEW TECHNOLOGY	Version March 31, 2020 **IF LICENSEE HAS PREVIOUSLY AGREED IN WRITING TO A SOFTWARE CENSE AGREEMENT WITH LICENSOR THAT SPECIFICALLY GOVERNS USE OF HE PROGRAM(S), SUCH SOFTWARE LICENSE AGREEMENT SUPERSEDES AND EPLACES THIS CLICKWRAP SOFTWARE LICENSE AGREEMENT, AND THIS		Files to be copied Files to be created: C:\Program Files\LSTC\LS-DYNA\ls- dyna_mpp_s_R9_3_1_winx64_ifort160_msmpi



### / 添加指定版本的LS-DYNA(windows)

#### 5. 然后计算时,在LS-RUN中的第二个输入框中选择求解器版本。

INPUT	V 🔄 NCPU	4	~ 4	~
SOLVER C:\F	vrogram Files\LSTC\LS-DYNA\R11.0\ls-dyna_mpp_s_R11.0_winx64_ifort131_ ~ 🦕 MEMORY	500m	~ AUT	O OFF
LS-DYNA co	mmand			
Preset	MPP single v Set			
13			~	Ξ
Expression	mplexec -np \$NCPU "\$SOLVER" I=\$INPUT memory=\$MEMORY			
Expression Preview	mpiexec -np \$NCPU "\$SOLVER" i=\$INPUT memory=\$MEMORY mpiexec -np 4 "C:\Program Files\LSTC\LS-DYNA\R11.0\ls-dyna_mpp_s_R11.0_winx64_ifort1	31_msmj	pi.exe"	



# / 添加指定版本的LS-DYNA(windows)

6.最新的dev版本,请到ftp.lstc.com/beta 用户名beta 密码keyboard进行相应的下载



### LS-DYNA安装中的任何问题,请随时联系我们。





新科益工程仿真中心



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