

## Instalação das ferramentas de SW utilizadas em ISD e LSD

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para dispositivos

Geração e instalação da licença



quartus lite download



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<https://www.intel.com/software-kit>

## Intel® Quartus® Prime Lite Edition Design Software Version ...

Multiple **Download**. Intel® **Quartus**® Prime **Lite** Edition Software (Device support included).

**Download Quartus-lite-20.1.1.720-windows.tar.**



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Vitô' já está em casa para cumpr...Intel® Quartus® Prime Lite Editi...+

←→↺https://www.intel.com/content/www/us/en/software-kit/660907/intel-quartus-prime-lite-edition-design-software-version-20-1-1-for-windows.html

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FPGA Software Download Center

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# Intel® Quartus® Prime Lite Edition Design Software Version 20.1.1 for Windows

ID	Date	Version
660907	11/22/2020	22.1.2 (Latest) 22.1.2 (Latest) 22.1.1 22.1 21.1.1 21.1 20.1.1 20.1 19.1 18.1 18.0 17.1 17.0

A newer version of the software is available, which includes functional and security updates. Customers should [click here](#) to update to the latest version.

Users should upgrade to the latest version of the software to receive the technical recommendations to help improve the performance of the software. The selected version does not include the latest functional and security updates. If you must use this version of software, follow the technical support requests, please contact our [support team](#).

The Intel® Quartus® Prime Lite Edition Design Software Version 20.1.1 is subject to removal from the web when support for all devices in this release are available in a newer version, or all devices supported by this version are obsolete. If you would like to receive customer notifications by e-mail, please subscribe to our [subscribe to our customer notification mailing list](#).

To find software versions that support specific device families:

- Refer to the [Device Support List](#)
- Use the [Software Selector](#)

[Critical Issues and Patches for the Intel® Quartus® Prime Lite Edition Software, Version 20.1.](#)  
[Knowledge Base: Search for Errata.](#) Also see [Critical Issues and Patches](#).  
[Problems and Answers on specific IP or Products.](#)

## Downloads

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### Multiple Download

96%

77°F Sunny

ENG PT6:30 PM 9/5/2023

# Intel® Quartus® Prime Lite Edition Design Software Version 22.1.2 for Windows

ID	Date	Version
785086	8/1/2023	22.1.2 (Latest) ▼

Users should upgrade to the latest version of the Intel® Quartus® Prime Design Software. The selected version does not include the latest functional and security updates. If you must use this version, please refer to the [technical recommendations](#) to help improve security. For critical support requests, please contact our [support team](#).

The Intel® Quartus® Prime Lite Edition Design Software, Version 22.1.2 is subject to removal from the web when support for all devices in this release are available in a newer version, or all devices in this release are obsolete. If you would like to receive customer notifications by e-mail, please subscribe to our [subscribe to our customer notification mailing list](#).

To find software versions that support specific device families:

- Refer to the [Device Support List](#)
- Use the [Software Selector](#)

[Critical Issues and Patches for the Intel® Quartus® Prime Lite Edition Software, Version 22.1.](#)

[Knowledge Base: Search for Errata](#). Also see [Critical Issues and Patches](#).

[Problems and Answers on specific IP or Products](#).

## Downloads

[Multiple Download](#) [Individual Files](#) [Additional Software](#) [Copyleft Licensed Source](#)

Intel® Quartus® Software

Façam só o download das aplicações que vão necessitar e que estão indicadas:

**Quartus prime**

**Questa\* Intel FPGA Edition**

E nos dispositivos(FPGAs)

**Intel Cyclone IV device support**

Devem colocar todas as aplicações na mesma pasta quando fazem o download pois facilita a instalação

## Intel® Quartus® Software

### Intel® Quartus® Prime (includes Nios II EDS)

Download  
QuartusLiteSetup-22.1std.2.922-windows.exe

Size: 1.6 GB

SHA1: 1ae00e588533119ab8538975d8e54daad7245e9f

\*\* Nios® II EDS on Windows requires Ubuntu 18.04 LTS on Windows Subsystem for Linux (WSL), which requires a manual installation.

\*\* Nios® II EDS requires you to install an Eclipse IDE manually.

\*\* Installation size: 8.87 GB

### Questa\* - Intel® FPGA Edition

Download  
QuestaSetup-22.1std.2.922-windows.exe

Size: 780.1 MB

SHA1: d40b03c15a206fe502befba78208c815c3b73711

\*\* Installation size: 2.73 GB

## Devices

### Intel® Arria® II device support

Download  
arria\_lite-22.1std.2.922.qdz

Size: 499.1 MB

SHA1: bcb5b720a47f8290a505a1a119c724bd598663ff

\*\* Installation size: 0.52 GB

### Intel® Cyclone® IV device support

Download  
cyclone-22.1std.2.922.qdz

Size: 465.8 MB

SHA1: 97163542d8dd846703fc1912ea0c844bc9359a2e

\*\* Installation size: 0.50 GB

cyclone-22.1std.2.922.qdz	9/5/2023 1:28 PM	QDZ File	476,929 KB
QuestaSetup-22.1std.2.922-windows.exe	9/5/2023 1:28 PM	Application	798,843 KB
QuartusLiteSetup-22.1std.2.922-windows.exe	9/5/2023 1:27 PM	Application	1,701,155 KB

Depois do download executam

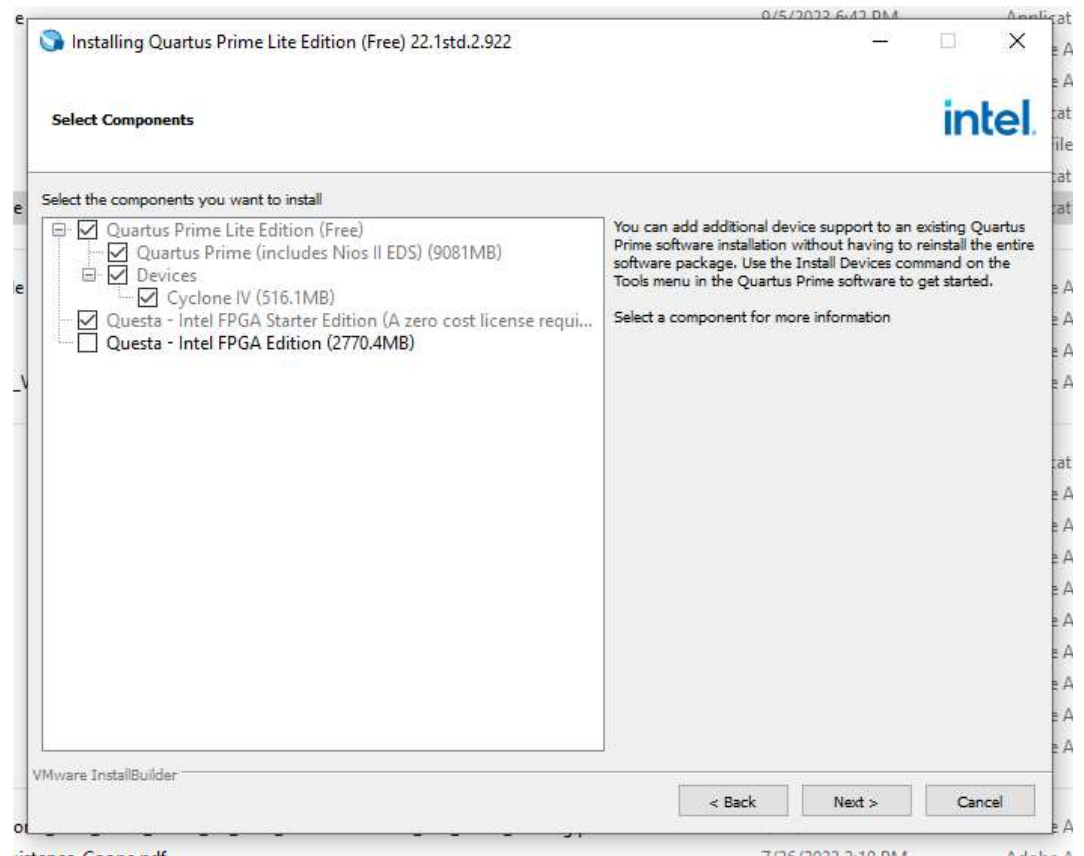
**QuartusLiteSetup-22.1std.2.922-windows.exe**

Depois de algumas janelas de aceitação chegam à janela do lado. Como podem verificar já se encontra seleccionado tudo o que deve ser instalado com o Quartus Lite

Devem continuar com **next**.

**No final ficam com SW instalado mas não podem simular os circuitos digitais que criarem.**

**O próximo passo será gerar um licença (free) para o Questa de modo a poderem realizar essas simulações.**



## MUITA ATENÇÃO

Quando iniciarem o **QUARTUS PELA PRIMEIRA VEZ** vai aparecer um menu em que têm que escolher um de três opções

Devem escolher - **Correr o Quartus (opção do meio)**

Apesar de irem instalar uma licença para o Questa na realidade não necessitam de uma licença para o Quartus LITE

# Geração de licença para o Questa.

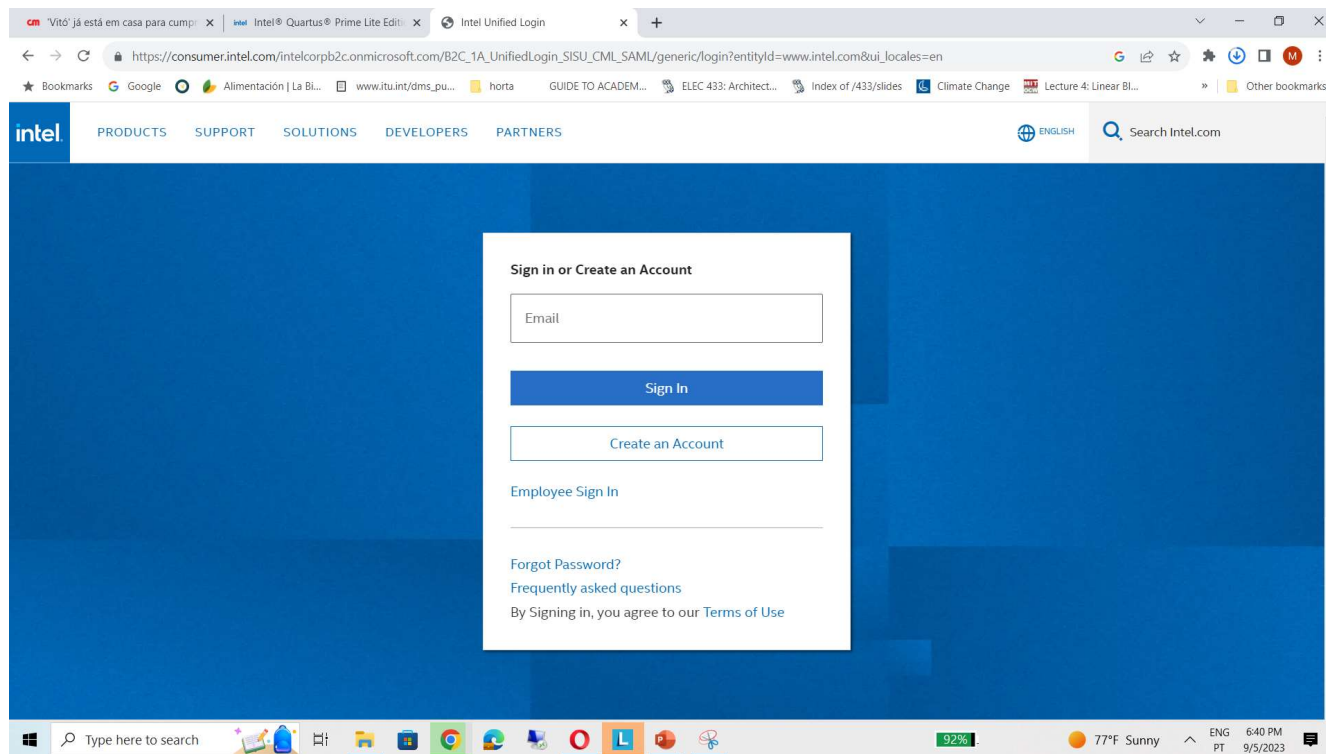
[https://licensing.intel.com/psg/s/?language=en\\_US](https://licensing.intel.com/psg/s/?language=en_US)

[Click Enroll for Intel® FPGA Self Service Licensing Center \(SSLC\)](#)

The screenshot shows the Intel FPGA Self-Service Licensing Center (SSLC) website. The browser's address bar displays the URL [https://licensing.intel.com/psg/s/?language=en\\_US](https://licensing.intel.com/psg/s/?language=en_US). The Intel logo is in the top left, and navigation links for PRODUCTS, SUPPORT, SOLUTIONS, DEVELOPERS, and PARTNERS are in the top center. A search bar with the text "Search Intel.com" is on the top right. The main heading is "Intel® FPGA Self-Service Licensing Center". Below this, there are two main sections: "Sign In" and "Enroll". The "Sign In" section includes links for "Already enrolled? - Sign In here", "Contact customer support", and "Frequently Asked Questions". The "Enroll" section includes a link for "Enroll for Intel® FPGA Self Service Licensing Center (SSLC)" and a note that the enrollment form is specific to external users only. At the bottom, there is a footer with links for Company Overview, Contact Intel, Newsroom, Investors, Careers, Corporate Responsibility, and Diversity & Inclusion. A "License Assistant" button is visible in the bottom right corner.



Vai ter que se registar. O processo de registo vai necessitar que faça o download da APP Authenticator no seu telemovel- Good Luck.



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Sign In

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Employee Sign In

Forgot Password?

Frequently asked questions

By Signing in, you agree to our [Terms of Use](#)

Type here to search

92% 77°F Sunny ENG PT 6:40 PM 9/5/2023

Um vez autenticado escolher **Signup for Evaluation or Free Licences**

The screenshot shows a web browser window with the URL <https://licensing.intel.com/psg/s/>. The Intel logo is in the top left, and navigation links for PRODUCTS, SUPPORT, SOLUTIONS, DEVELOPERS, and PARTNERS are in the top center. A search bar is on the top right. Below the navigation bar, the page title is "Intel® FPGA Self-Service Licensing Center". A dark blue horizontal menu contains the following items: Home, Licenses, Computers and License Files, Admins, **Sign up for Evaluation or Free Licenses** (highlighted with a red box), Reports, and Help. Below the menu, a message states: "Your Intel® FPGA SSLC sign-in experience is changing to support enhanced security controls. [CLICK HERE](#) for more information".

Below the main content area, there are two panels. The left panel has a blue background with white text that reads: "Hi! Welcome to the new Licensing Center. Try the new License Assistant". The right panel shows a preview of the Intel FPGA Self-Service Licensing Center interface, which includes a "License Assistant" chat window. The chat window has a header "License Assistant" and a message: "Hi, I'm your licensing assistant. I can help you with the following:". Below the message are four buttons: "Find and generate license by License Activation Code", "View your unlicensed products and generate license", "Regenerate license by Primary Computer", and "Rehost and generate license". At the bottom of the chat window is a text input field and a "License Assistant" button.

The Windows taskbar is visible at the bottom of the screen, showing the search bar, task view button, and several application icons. The system tray on the right shows the battery level at 88%, the temperature at 77°F Sunny, and the date and time as 6:50 PM 9/5/2023.

Na janela selecionar Questa\* Intel FPGA Starter Edition (SW – QUESTA)

Click no lápis para editar e seleccionar uma licença – tickar os terms de uso e feedback e continuar com **Get License**

The screenshot shows the Intel Quartus Prime Lite Edition license selection page. The page displays a table of available licenses, with the 'Questa\*-Intel® FPGA Starter Edition (License: SW-QUESTA)' license selected. The table includes columns for 'Web Description', '# of Seats', 'Maintenance expiration', and 'License expiration'. Below the table, there are checkboxes for 'I have read and agree to the terms of use of this license as listed below' and 'Check this box if you don't want Intel to contact you for feedback. Your feedback helps us improve the product.' The page also features a 'Give Feedback' button and a 'License Assistant' button.

	Web Description	# of Seats	Maintenance expiration	License expiration
1	Intel® Quartus® Prime Software 90-Day Evaluation (Standard and Pro Editions) (License: EVALUATION-LIC)		2023-12-05	2023-12-04
2	Questa*-Intel® FPGA Starter Edition (License: SW-QUESTA)	1	2024-09-05	
3	Nios® V/m Microcontroller Intel® FPGA IP (License: IP-NIOSVM)		2024-09-05	
4	Nios® V/g General Purpose Processor Intel® FPGA IP (License: IP-NIOSVG)		2024-09-05	
5	Discontinued - MAX+PLUS® II Software License for Student and University Members (License: PLS-WEB)		2024-09-05	
6	Discontinued - Intel® Quartus® II Software (License: SW-QUARTUS-WE-FIX)	1	2024-09-05	
7	Discontinued - MAX+PLUS® II Software (License: MAXPLUS2WEB)		2024-09-05	

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Maintenance for this license is valid for 12 months from the date you sign up for this license. [Terms of Use](#)  
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**Give Feedback**

**License Assistant**

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2	<input checked="" type="radio"/> SW-QUESTA)	2024-09-05
3	<input type="radio"/> Nios® V/m Microcontroller Intel® FPGA IP (License: IP-NIOSVM)	2024-09-05
4	<input type="radio"/> Nios® V/g General Purpose Processor Intel® FPGA IP (License: IP-NIOSVG)	2024-09-05
5	<input type="radio"/> Discontinued - MAX+PLUS® II Software License for Student and University Members (License: PLS-WEB)	2024-09-05
6	<input type="radio"/> Discontinued - Intel® Quartus® II Software (License: SW-QUARTUS-WE-FIX) 1	2024-09-05
7	<input type="radio"/> Discontinued - MAX+PLUS® II Software (License: MAXPLUS2WEB)	2024-09-05

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Maintenance for this license is valid for 12 months from the date you sign up for this license. [Terms of Use](#)

☒ Check this box if you don't want Intel to contact you for feedback. Your feedback helps us improve the product.

[Give Feedback](#)

[Get License](#)

Click **+New Computer**

The screenshot shows a web browser window with the URL <https://licensing.intel.com/psg/s/sales-signup-evaluationlicenses>. The page displays a list of licenses, including Nios® V/m Microcontroller Intel® FPGA IP and Nios® V/g General Purpose Processor Intel® FPGA IP. A modal dialog box titled 'Generate License' is open, showing three options: 'Generate License', 'Create a New Computer', and 'Assign an Existing Computer'. The 'Create a New Computer' option is selected, and the '+New computer' button is highlighted with a red rectangle. Below this, there is a text input field for 'Enter Computer Name/Primary Computer ID' and a search bar labeled 'Search Host Information...'. At the bottom of the dialog are 'Cancel' and 'Generate' buttons. The background page also includes a 'Get License' button and a 'License Assistant' chat icon.

The screenshot shows a 'Create Computer' form with the following fields and annotations:

- \* Computer Name:** A text box containing 'id5435'. An arrow points from the text 'Nome do computador' to this field.
- \* License Type:** A dropdown menu with 'FIXED' selected. An arrow points from the text 'Tipo de licença FIXED' to this field.
- \* Computer Type:** A dropdown menu with 'NIC ID' selected. An arrow points from the text 'Aqui coloca Physical Address de um dispositivo do computador.' to this field.
- Primary Computer ID:** A text box containing 'XXXXXXXXXX'. An arrow points from the text 'Escrever os 12 caracteres sem os hifens' to this field.
- Primary Admin:** A text box containing 'Manuel Violas'.
- Buttons:** 'Cancel' and 'Generate License' at the bottom right.

Annotations on the right side of the image:

- Aqui coloca Physical Address de um dispositivo do computador.
- Abrir Janela de comandos (cmd no search)
- Executar **ipconfig -all** e escolher uma das physical addresses disponiveis
- Eu escolhi a placa adaptadora de ethernet
- Escrever os 12 caracteres sem os hifens
- Nome do computador
- Control panel -> system -> computer name

Tipo de licença FIXED

A licença é enviada por email.

Com o mail recebem também instruções para sua instalação

A licença é um ficheiro anexo ao mail e que deve ser guarda numa pasta, por exemplo na pasta C:\intelFPGA\_lite que é normalmente criada quando instala o Quartus.

#### 1.0 License Installation Instructions

1. Save the attached license file to your computer's hard drive. Intel FPGA recommends saving the file with a ".dat" file extension.

Note: If no license file is attached to this email, please refer to "2.0 Getting your License File from Self Service" for more information.

2. Use the appropriate method below (1.1 or 1.2) to setup your License.

#### 1.1 Fixed PC Licenses, Specifying your License File within Quartus® Prime Software

Note: Does not support third-party EDA tools such as ModelSim® Intel FPGA Edition, LM\_LICENSE\_FILE must be used.

See Setting the LM\_LICENSE\_FILE Environment Variable in the Windows Control Panel in the [Quartus Prime Software Installation and Licensing Manual \(.pdf\)](#) for more information:

1. In Quartus Prime software, choose License Setup (Tools Menu).
2. Specify the full path to the licenses file in the "License File" field or browse to the file.
3. Click OK to close the License Setup Menu
4. If you encounter any problems, please see section 3.0 for Licensing and Installation resources and support information.

## Criação de variável LM\_LICENSE\_FILE

### On Windows System

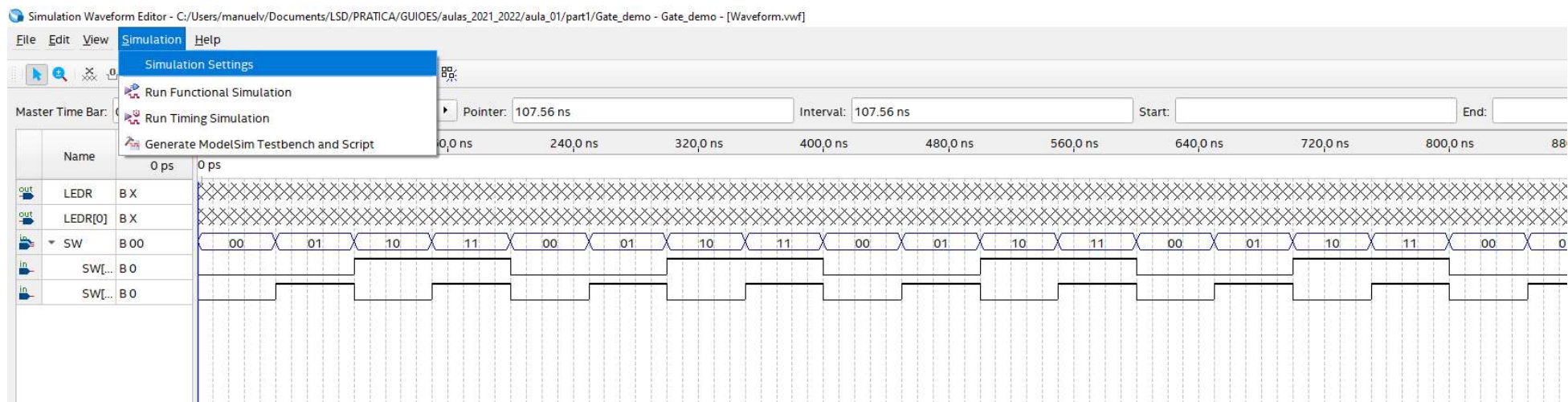
1. Go to **This PC**, right-click, and select **Properties**.
2. Click **Advanced System Setting**.
3. In the **Advanced** tab, select **Environment Variable**.
4. Under **System variables**, create a new variable with the name as LM\_LICENSE\_FILE and value as <license.dat file path>.
5. Click **OK** and restart the Questa\* software.

Alternatively, open a command prompt and run the following command to set up the LM\_LICENSE\_FILE environment variable:

```
setx LM_LICENSE_FILE <path_to_license_file>;%LM_LICENSE_FILE%
```



Para simular o comportamento de um circuito digital vai ser necessário no quartus abrir o University Program VWF que abre uma Janela Simulation Waveform Editor (abaixo)



Deve seleccionar **Simulation** -> **Simulation Settings**

Aterar -novopt option para -voptargs="+acc"

