

# Clipper Job Interview Questions And Answers



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## Clipper Interview Questions And Answers Guide.

### Question - 1:

Explain what are the operating systems under which Clipper can operate?

#### Ans:

MSDOS and clones and emulators.

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### Question - 2:

Explain what are the features of Clipper VO?

#### Ans:

There is no Clipper VO; CA Visual Objects is an object oriented Clipper super-set that runs under Windows and creates Windows executables.

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### Question - 3:

Tell me how is file locking handled in Clipper?

#### Ans:

```
if flock()=.T. then  
else  
endif
```

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### Question - 4:

Tell me what is the database on which Clipper is based?

#### Ans:

Clipper is a technique. This technique is used for data format converting into other format, because no one can hack or misuse it. So convert the text into other format for transformation on the internet.

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### Question - 5:

Explain what is the format used for real numbers by Clipper?

#### Ans:

Clipper uses binary floating point format for Real Numbers which could result in precision related errors.

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### Question - 6:

How easy is NetLib to use?

#### Ans:

Most tasks can be accomplished with one or two lines of code. For more complex tasks (such as processing login scripts), we provide source code "snippets" which you can include in your application.

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### Question - 7:

Who is Communication Horizons?

#### Ans:

In a business where companies and products seemingly come and go every month, Communication Horizons has been a fixture on the PC software landscape since 1986. Their flagship product, NetLib, was introduced in 1986, and has won either "best of" or "honorable mention" in the DataBased Advisor Readers Choice Awards



every year since 1989.

RaSQL, introduced in 1989, has almost single-handedly raised the awareness in the "Xbase" community to the benefits of Btrieve. Between the two, Communication Horizons' products have been used by tens of thousands of developers worldwide.

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### **Question - 8:**

What versions of Clipper does NetLib support?

**Ans:**

NetLib supports Clipper 87 through 5.3.

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### **Question - 9:**

Does NetLib support Windows 95?

**Ans:**

NetLib 6.5 will allow you to use FiveWin or Clip4Win to create Windows 3.1 compatible products. These programs can run unchanged under Windows 95.

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### **Question - 10:**

Is it possible to break NetLibs encryption?

**Ans:**

NetLib's SDE was designed to be a moderately secure scheme to keep unauthorized users and programmers from accessing data. It was not designed to foil the skilled, dedicated hacker. If you have data of an extremely sensitive nature that you believe certain people are actively trying to compromise, you should look at an extremely secure scheme such as "DES" or "PGP" encryption.

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### **Question - 11:**

Why do I need NetLib?

**Ans:**

If you are developing applications for use on a network it can greatly enhance the "look and feel", responsiveness and security of your application. It can improve your productivity by making difficult tasks easier and seemingly impossible tasks possible.

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### **Question - 12:**

If I use NetLib, will I find many other users to network with?

**Ans:**

NetLib has been around since 1986, and has over 20,000 users world-wide. You will easily find other users who may be willing to exchange their tips and tricks.

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### **Question - 13:**

What is NetLib for Clipper?

**Ans:**

NetLib is a multi-faceted networking library for CA-Clipper. While it focuses on network functionality it also has many features which make it valuable even on a stand-alone system.

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### **Question - 14:**

Why not PHENIX, the Zelinka/Otwinoski libraries, etc?

**Ans:**

I'm writing this library to solve my own problems, and to help CCP4 developers transition to OO programming. You should find the best tool for the problem you need to solve, and use that. If Clipper fits the task, then I am happy to provide advice on implementation and make changes which do not lose generality.

Having said that, it is certainly possible to use CLipper in association with CCTBX.

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### **Question - 15:**

Why do not you use GNU autoconf or SCONS for building?

**Ans:**

The short answer is that if you get it from CCP4, it does. If you get it from me it doesn't, because autoconf is unreasonably complex and I have better things to fill my head with.

The long answer is that when Paul (who is an autoconf guru) and I set up autoconf for clipper it took us a week, and required sufficient specialist knowledge that I couldn't really maintain it. By contrast, when I set it up with SCONS, it took me less than a day and was easily maintainable, however at that stage SCONS didn't handle other platforms very well. So I distribute development versions of clipper with simple build scripts which actually work for me, CCP4 distribute release versions with autoconf because they have enough experience to maintain it, and PHENIX distribute it with SCONS because that's what they use. If you want an autoconf version, use the CCP4 release (granted it's always a bit out of date).



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**Question - 16:**

What is the license for Clipper?

**Ans:**

If you get it from here, the code is licensed under the LGPL with an additional clause allowing for the distribution of binaries without object files. If you get it from CCP4, it is licensed under the CCP4 library license.

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**Question - 17:**

Can I use Fortran/C/Python/Visual Basic?

**Ans:**

You can provide SWIG wrappers for the parts of your program you need to access.

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**Question - 18:**

Why use references rather than pointers in the public API, particularly for arguments which are modified?

**Ans:**

The C++ provides the most precise statement of the principles:

No pointers in the public API, except when returning a pointer which might be null. The above reference also describes the problem of wrong attitudes brought over from C.

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**Question - 19:**

Why C++ used in Clipper?

**Ans:**

This is where I'm supposed to tell you that C++ is a great language. It isn't (at least not for my purposes). A good programming language allows you to think in the language of the problem, not the language of the computer. In C++ you keep having to return to implementational details, such as whether to use a pointer or a reference or a value, a derived class or a template. This is probably unavoidable if good performance is going to be achieved.

But the main reason is a lack of alternatives. Java is (generally) slow, and clumsy in places. Maybe Objective-C, Delphi, or even C# have solved some of these problems, but they are less portable and less widespread than C++.

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**Question - 20:**

Do I need CCP4?

**Ans:**

No. CCP4 is an optional dependency which is only needed if you want to access CCP4 file formats.

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**Question - 21:**

What does CLIPPER stand for?

**Ans:**

\* A clipper is a fast or prestigious ship.

\* CliPPER = C Plus Plus

\* cLipper = LLibrary

\* clippER = ER, thats enough acronym for now.

\* Or if you prefer, "Cross-crystal Likelihood Phase Probability Estimation and Refinement, which is what I hope it will be used for.

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