

Intel compilers

Useful links

In CCB, we cannot use the "non-commercial" license on our clusters, alas:

- <http://software.intel.com/en-us/non-commercial-software-development>

*Non-commercial software development means **you are not paid and/or compensated in any form, by anyone, for software development using the Intel® Software Development Products** under the terms of the non-commercial license.*

Nor can someone in CCB just grab the personal "Student" license and use it on our clusters:

- <http://software.intel.com/en-us/intel-education-offerings#pid-2460-93>

*Students **cannot be paid and/or compensated for software development using the Intel® Software Development Products student suites.***

Parts of the Intel® Cluster Studio XE are used on some of our research clusters:

- Product home page: <http://software.intel.com/en-us/intel-cluster-studio-xe>
 - Product Brief (PDF) Intel® Cluster Studio XE 2013 SP1, which contains a **comparison chart of different suites**, or what they call purchase options:
 - <http://software.intel.com/en-us/sites/default/files/Intel-Cluster-Studio-XE-2013-PB-082313.pdf>
- Please see the Intel web site for package options and educational pricing:
 - <http://software.intel.com/en-us/intel-education-offerings#pid-8748-93>
 - On that page, select the "Academic" tab, if not already selected, for packages and prices.

Compiler version history on Wikipedia:

- http://en.wikipedia.org/wiki/Intel_C%2B%2B_Compiler#Ten_year_version_history (C/C++)
- http://en.wikipedia.org/wiki/Intel_Fortran_Compiler#Ten_Year_Version_History (Fortran)

Snapshot of the mostly relevant history

-----Original Message-----

From: Michael E Hint
Sent: Monday, April 7, 2014 12:53 PM
To: Chemistry IT Admin
Subject: RE: Intel compiler: 2011/4.0 (Intel® Cluster Studio)

The basic thing we should buy to come to today's version based on Lulu telling us we need C/C++ and Fortran/Math Kernel Libraries:

Intel® Composer XE for Linux

<http://softwarestore.ispfulfillment.com/store/Product.aspx?skupart=I23S80>

2 users - Intel® Composer XE for Linux* OS - Floating Academic 2 Seat [Electronic Delivery] Manuf Part #: ICX999LFAE02 List price: \$2049 CDWG \$2000

Yearly maintenance: Intel® Composer XE for Linux* OS - Floating Academic 2sts (Service & Support Renewal Pre-Expiry) [Electronic Delivery] Manuf Part #: ICX999LFAM02 List price: \$1049

CDWG: \$1000

-----Original Message-----

From: Oliver B. Habicht
Sent: Friday, August 02, 2013 12:40 PM
To: Chemistry IT Admin
Subject: FW: [Ticket #529] Ananth - Intel compiler license

Michael,

Please review/ confirm the summary Matt put together, below, about the Intel compiler s/w licensing, along with his questions, and get back to him.

Thanks, -Oliver.

-----Original Message-----

From: Matthew Thomas Moschella

Sent: Friday, August 02, 2013 10:54 AM

To: Oliver B. Habicht

Subject: RE: [Ticket #529] Ananth - Intel compiler license

Oliver,

This is my understanding of our licensing with Intel Compiler; I have made some assumptions, so please correct me if anything is unclear or incorrect.

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A new edition of the software can be purchased for \$7,000 and used by that faculty member's entire research group and installed on as many machines within that group as needed. This purchase could be made by any research group/faculty member, but currently we only have two groups (Ananth and one other that I do not know) that have purchased the software.

Once purchased, the research group is authorized to use the "current" edition of the software (more precisely, the edition that was current at the time of the purchase) forever. The purchase also includes a year of maintenance/support under which the research group can upgrade to any software released within that maintenance timeframe and then continue to use that upgraded version forever (even after the maintenance expires).

Maintenance/support and the features mentioned above can be extended at a price of \$1700 per year. However, Maintenance/support can only be purchased if the research group already had maintenance/support for the previous year. This means that if Group A bought the software for \$7000 in 2012; received maintenance/support for 2012-2013; does not buy the maintenance/support for 2013-2014; and wants to upgrade to the newest version in 2014, they would be unable to purchase maintenance/support (and the ability to upgrade) for \$1700 and would have to buy an entire new license for \$7000.

So essentially, once you purchase or upgrade the software, you can continue to use it forever, but if you want to upgrade the software it costs \$1700 per year or \$7000 for non-consecutive editions (assuming that there is a new edition every year).

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Let me know if there is anything incorrect or unclear here.

I still need to know what groups had or currently have the software.

Also, I'm unclear (although I made a guess in the above description) about who is allowed to use the software and/or what machines are allowed to have the software installed once the purchase is made.

Thanks,

Matthew

-----Original Message-----

From: Oliver B. Habicht

Sent: Thursday, August 01, 2013 1:02 PM

To: Chemistry IT Admin

Subject: FW: [Ticket #529] Ananth - Intel compiler license

Matt, Here you go! -Oliver.

-----Original Message-----

From: Oliver B. Habicht

Sent: Friday, October 19, 2012 3:52 PM

To: Nandini Ananth

Cc: Chemistry Research Computing Facility Service Request

Subject: [Ticket #529] Ananth - Intel compiler license

Nandini,

Thanks to Michael Hint, here are the details on our existing Intel compiler licensing:

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Originally purchased item - Intel® Cluster Toolkit Compiler Edition for Linux – 2 seats – purchased 7/23/2010 with 1 year of maintenance/support going to August 19, 2011.

Original version shipped – Version 3.2

Upgrade edition shipped – Version 2011/4.0 – name changed to Intel® Cluster Studio – shipped November 8, 2010 – we are allowed to use this edition as it shipped during our year of maintenance/support

Upgrade edition shipped – Version 2012 – shipped November 3, 2011 – we are not allowed to use this edition as it shipped after our maintenance/support ended

Upgrade edition to be shipped shortly – Version 2013 – to be shipped start of November 2012 – we are not allowed to use this edition as it will ship after our maintenance/support ended

Maintenance costs ~\$1700 per year. Maintenance purchase adds one year to the old date – so 1 year of maintenance would take us from August 19, 2011 to August 19, 2012, and therefore allow us to obtain and use Version 2012. Another year of maintenance would get us to August 2013, and therefore get us the edition about to be shipped.

If we purchase a brand new edition later, at \$7000, it would again get us one year of maintenance/support starting from that new purchase date.

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Your cluster's hardware uses Intel processors presumably sporting features not recognized by the latest version of the Intel software you are licensed to use.

Here's the question I propose: Are the features of the versions you currently are not licensed for of sufficient value to your work to warrant paying the maintenance price for the license? If so, which version of the Intel software do you need to obtain? (That will determine how many years of maintenance are required.)

Once you determine if there is value in paying for any upgrades, and how many years you'd want, any upgrade paid for would apply to the second "seat", which you do not use. Thus, there may be value in clarifying who and how that seat can be used, especially if that license "seat" is used by a group not paying for the upgrade. For example, do they simply use up to the pre-upgrade version, but if they want something newer, they need to cost-share somehow?

Please let me know if you need more information as you work to determine if the newer versions would benefit your research.

Thank you, -Oliver.

For completeness, here's some pertinent communication with CAC folks about this software and version-related ideas.

From: Chemistry Research Computing Facility Service Request

Sent: Thursday, September 13, 2012 1:20 PM

To: Jodie H. Sprouse

Cc: Resa D Alvord; Chemistry Research Computing Facility Service Request; Nandini Ananth

Subject: RE: astra software licenses

Jodie,

Intel: I provided a copy of our Chemistry department license so you could see what components we have licensed. Do you need the actual installer or do you already have it? Your previous emails had me believing that you didn't need anything further from us on this application. [...] Also FYI, we are investigating obtaining and licensing a newer edition of the Intel compilers.
