



Clear Ballot

ClearVote 2.3

ClearCount System Identification Guide

ClearCount System Identification Guide

Clear Ballot Part Number: 100047-10020

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Table of contents

Preface	5
Chapter 1. Scanner identification	6
1.1 Fujitsu fi-6400 and fi-6800 identification	6
1.2 Fujitsu fi-7180 identification	7
1.3 Fujitsu fi-7800 identification	8
1.4 Fujitsu fi-7900 identification	9
Chapter 2. Verifying the ClearCount software	10
2.1 Procedure to verify the software	10
2.2 Installed Clear Ballot product files	11
Chapter 3. Installed third-party software	23

Preface

This section defines the purpose of this document.

About this document

This document enables election officials to verify the software files for the ClearCount system.

Scope of this document

This document provides the following information about the ClearCount system.

- Chapter 1. Scanner identification
- Chapter 2. Verifying ClearCount software
- Chapter 3. Installed third-party software

Intended audience

This document is for election officials and election staff who are responsible for operations and maintenance before, during, and after an election. Clear Ballot personnel also use this document to support election officials and election staff.

References to ClearVote products

A ClearVote® system can comprise the ClearAccess®, ClearCast®, ClearCount®, and ClearDesign® products. Jurisdictions are not required to purchase all products. You can ignore references to any ClearVote products that are not part of your voting system. Also ignore implementation options that are not relevant to your policies and procedures.

Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to Documentation@ClearBallot.com.

If you have questions about using your product, contact your Clear Ballot representative.

Chapter 1. Scanner identification

1.1 Fujitsu fi-6400 and fi-6800 identification

The following figures show the front and back of the Fujitsu fi-6400 or fi-6800 scanner.



Figure 1-1. Front view of Fujitsu fi-6400 or fi-6800 scanner



Figure 1-2. Back view of Fujitsu fi-6400 or fi-6800 scanner

1.2 Fujitsu fi-7180 identification

The following figures show the front and back of the Fujitsu fi-7180 scanner.



Figure 1-3. Front view of Fujitsu fi-7180 scanner



Figure 1-4. Back view of Fujitsu fi-7180 scanner

1.3 Fujitsu fi-7800 identification

The following figures show the front and back of the Fujitsu fi-7800 scanner.



Figure 1-5. Front view of Fujitsu fi-7800



Figure 1-6. Back view of Fujitsu fi-7800 scanner

1.4 Fujitsu fi-7900 identification

The following figures show the front and back of the Fujitsu fi-7900 scanner.



Figure 1-7. Front view of Fujitsu fi-7900 scanner



Figure 1-8. Back view of Fujitsu fi-7900 scanner

Chapter 2. Verifying the ClearCount software

After installing your ClearCount software, you need to verify that the SHA-256 hash values of the installed software match those of the certified version. This process ensures that the contents of the software have not been changed by a third-party or altered by malware.

2.1 Procedure to verify the software

To verify the installed software:

1. At a CountStation computer, log in to the ClearCount system as an administrator.
2. Insert a USB drive into one of the computer's available USB ports.
3. From the Election Index page, click the drop-down menu next to your user name and select **About this software**.
4. Click the **Clear Ballot Product Files** tab and then click the **Copy** button. A message indicates that the table was copied.
5. Click the Start button on the Windows task bar and search for and select **Notepad**.
6. Paste the copied information into the Notepad window and save the file as a TXT file to the USB drive.
7. Close the About page and log out of the CountStation computer.
8. Remove the USB drive from the CountStation computer and insert it into another computer running Microsoft Windows.

Another computer is necessary because the ClearCount hardening procedures prevent opening and viewing the file on the CountStation computer.

9. Use a text or spreadsheet program, such as Notepad or Excel, to open and view the file.
10. Compare the hash values in the saved file to the hash values provided in the following table.
 - If the hash values match, the software is unmodified and matches the certified version.
 - If the hash values do not match, the software on the server does not match the certified version. The software has been modified, improperly installed, or is nonmatching for some other reason.
11. If any mismatch occurs, do one of the following:
 - Follow jurisdictional procedures to resolve the discrepancy.
 - Contact Clear Ballot Technical Support for assistance.

2.2 Installed Clear Ballot product files

Table 2-1 lists the file specification, timestamp and SHA-256 hash value for each Clear Ballot-authored files installed on the ClearCount CountServer computer.

Table 2-1. Installed Clear Ballot product files.

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/js/activate_chosen.js	9/21/2022 15:01	cf704074ccfa1564985d6ab0395786df190794ce6560334913a5069fce420afd
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-regular-400.ttf	9/21/2022 15:01	1b3e28605409788bbe979e925274a1f19726f84a73752d9c5a35ab0077580507
/usr/share/cbg/web/media/3rdParty/DataTables/js/buttons.bootstrap.min.js	9/21/2022 15:01	c366a71392cedf0d9735673f70a054baa6f9c25bf25dd37dd802a0722cf8685f
/usr/share/cbg/web/media/3rdParty/DataTables/js/vfs_fonts.js	9/21/2022 15:01	5cb81fa70754070475938e9859359a268122c9b62cac154ebb8e120e812662cc
/usr/share/cbg/web/media/clearBallot/js/test/oval-section-component.spec.js	9/21/2022 15:01	84e81dea643264c6bb97c997111d579f2fb010e6747a1b8b358a14586d90d38e
/usr/share/cbg/web/media/clearBallot/img/forward_enabled_hover.png	9/21/2022 15:01	4fa2d689a633713d9fb8900611a646c5df0ba24deb9597ab955c62cba77ae3b4
/usr/share/cbg/web/BallotAuditLog	9/21/2022 15:01	3fec4cb1b7b6464a41e5fca632f687aaaabc161a3dd8798bd20ffea59c25b533
/usr/share/cbg/web/media/clearBallot/js/base.js	9/21/2022 15:01	ecd7d6cc292f2795b17efa4b25a5070a7cdb1ad17f6526f2cb71846459dce12c

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/js/ovals.js	9/21/2022 15:01	317a9b21d78915ae52bef45bde256c3e391ac40dd362cb5f0434c0b4b7e3983b
/usr/share/cbg/web/media/clearBallot/js/jquery.dataTables.neutral-sorting.js	9/21/2022 15:01	3a91c255d10b7c2f3d7d9399094320743ff7be0f961ce9dc40c4779d49e15cc1
/usr/share/cbg/web/media/clearBallot/img/xls.png	9/21/2022 15:01	7995e42ff963255fb782c1b858e7d01be93f204befade7e7a41961e42d285d44
/usr/share/cbg/web/media/clearBallot/img/copy_hover.png	9/21/2022 15:01	cde411862f25c1f66a2f54da665968e4b5be58e5eb6ef5769fc69fde1cf8915e
/usr/share/cbg/web/media/3rdParty/DataTables/js/jquery.dataTables.js	9/21/2022 15:01	3c13de10441bcfc738ae1241dc3a5d89db75e9bbf10ae26c584b00ea567e66af
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-solid-900.svg	9/21/2022 15:01	2ed66bb158d0b835e77a7185f49d85218f916287413693d789bf0ac8b0f5a472
/usr/share/cbg/web/media/clearBallot/js/test/setup.js	9/21/2022 15:01	c2fabe296725a08935fc5fe8b60602884f96dc0f421d7c3caab0d971efcb219d
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-solid-900.woff	9/21/2022 15:01	0621d3633060aeb41e7d6e0665833cdac7f4ec8bf5e3470d5e60dde686b510a3
/usr/share/cbg/web/media/clearBallot/img/forward_disabled.png	9/21/2022 15:01	ede9f1003cef25add5cc2b13f531a014ed9bea78154d4fba008b21f353030295
/usr/share/cbg/web/media/3rdParty/jquery-splitter/js/jquery.splitter.js	9/21/2022 15:01	41f4662afe3b2729a6c580f681feb2a7b4e01943941d77d3004aab572b727411
/usr/share/cbg/web/media/3rdParty/DataTables/css/buttons.bootstrap.min.css	9/21/2022 15:01	587036c6d28e4a46efd5cd3f33b68ef7a06ead7ffb6aad85509cb5f2103107ac

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/js/package.json	9/21/2022 15:01	4d17f4d8cd15b263f99aed57477d5be294629da91e40612291e219c5 0a9ab37d
/usr/share/cbg/web/media/3rdParty/chosen/js/chosen.jquery.js	9/21/2022 15:01	f52bfbac56b143acff90d8d3b8d7164ecf46f65469221ccad51ee6ec82 36ab92
/usr/share/cbg/web/media/clearBallot/js/jquery.dataTables.five_ button.js	9/21/2022 15:01	7d631090a43950c70620ce2a9ae1f002debb03cdf3250c2509188a985 4f2a6ca
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-regular-400.svg	9/21/2022 15:01	0d555c02b2f3c7c69469fb317f66317f033787b324b9e25250f745cad 952234a
/usr/share/cbg/web/media/clearBallot/js/writein_assignment.js	9/21/2022 15:01	d58ac3786a8590eaa146b67427db65791caad083d85a6ec1f625a365 47eaac8c
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-regular-400.woff	9/21/2022 15:01	74bab0caf2c4761917bee048ee25856c12a88b0e036fd0c78427f9a66 8a509f2
/usr/share/cbg/web/scripts/rc.init_ufw	9/21/2022 15:01	f05faf87a31ddfe1d344346efa86b13897ab2cd0ba44d5dd1eed7a544 dd30b41
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery-1.10.2.min.js	9/21/2022 15:01	0ba081f546084bd5097aa8a73c75931d5aa1fc4d6e846e53c21f98e6a 1509988
/usr/share/cbg/web/media/3rdParty/DataTables/js/pdfmake.min.js	9/21/2022 15:01	20e3773ae2c59e826616df8b200141c54b038bf1d2d9af70c144d57af e6347f0
/usr/share/cbg/web/media/clearBallot/css/writein_assignment.css	9/21/2022 15:01	fc46e85efb0e37be6d9ad6d88f7945e941aabc83cf236d22b22dddad3 18a7f6e
/usr/share/cbg/web/BallotBackground	9/21/2022 15:01	6f928a7ffe038591a961ee2dd765e43410330d68368f4a4d126e9a2b6 b6b2be7

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/3rdParty/bootstrap/js/bootstrap.js	9/21/2022 15:01	bdad90b135145d1d5a5a2243bfa2bd073ef8fe813e5d26984999188b0e770c6a
/usr/share/cbg/web/media/3rdParty/vue/js/vue.min.js	9/21/2022 15:01	72194d152571dd375c4365e5c3b4af9db2c06af0102ced18fcb062597d38be26
/usr/share/cbg/web/media/clearBallot/img/ballot_remaking.png	9/21/2022 15:01	a4def66462c12ea160e1c67fda67e5cd486c1c5f1450e8c2f2ed60bffa06f1d7
/usr/share/cbg/web/media/3rdParty/DataTables/js/dataTables.fixedHeader.js	9/21/2022 15:01	e10b4ef930734e08d1f5bafc1c17483eb5bbd41cadb6d3f615c9945917eb7237
/usr/share/cbg/web/media/3rdParty/DataTables/js/dataTables.buttons.js	9/21/2022 15:01	3880f4bf49dd85e2e2642312928ac9f4c937804674e9daa193eb793d1be494d8
/usr/share/cbg/web/media/clearBallot/css/ballot_remaking.css	9/21/2022 15:01	6efb7a7411c9b30de0849b363737ef8c9b2db8ee8574df172d69c13c54e58677
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fontawesome-regular-400.woff2	9/21/2022 15:01	d04d1dc6d82e0f31815b0b045bf396bc479b9d1669e66d872f632cc852732120
/usr/share/cbg/web/media/clearBallot/img/csv_hover.png	9/21/2022 15:01	671101bdd0b393cd51c28b34fb5fa24c08932e654c75b47df2d7ef8b021ce289
/usr/share/cbg/web/media/clearBallot/js/webVoteCenters.js	9/21/2022 15:01	b134eda1f6072624f673224c0cc68a9be2e4b9497cfbd55ade62dcef78a318fa
/usr/share/cbg/web/media/3rdParty/fontawesome/css/fontawesome.min.css	9/21/2022 15:01	3ebb9fc09d4b3e344b5ba15ae9816e2c81ac63cbd21329e564d86956ef2d5cdb
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery-migrate-1.2.1.js	9/21/2022 15:01	f361bc661b0b4ff5fb43df25a2db37ffd76d22959cbc93160918f5d5b665470e

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/img/sort_both.png	9/21/2022 15:01	624f0a471a2535c4754e1f6974b0e64ee70d6907738346e2a11d0bff2 0258b8c
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery.tooltip.js	9/21/2022 15:01	2f83088f544450796e6779b36638b5ac1502c25fd818fef0bfd81591c e78fb5
/usr/share/cbg/web/media/3rdParty/DataTables/js/dataTables.bootstrap.js	9/21/2022 15:01	b492281c0eb870d7bad0b4349aec7d20bc3ef5c2c3f91a1b33b6ab53 bbcd9499
/usr/share/cbg/web/media/clearBallot/img/xs-CB-Lockup-Color-RGB-01.png	9/21/2022 15:01	fef78faaf21aa75508a6e83ec3fad91772083f942babd26aa9d69076e3 9d6211
/usr/share/cbg/web/media/3rdParty/bootstrap/js/bootstrap4.min.js	9/21/2022 15:01	7209e11a45cef119e8d3539afb2689835d17b16a0a22f8334d867cf77 a220d2a
/usr/share/cbg/web/media/3rdParty/DataTables/js/jszip.min.js	9/21/2022 15:01	9e170a21bb67ccf7dcab122c726e72637105a45d893350afa9b7a3836 9a0c1fd
/usr/share/cbg/web/media/3rdParty/DataTables/css/fixedHeader.bootstrap.css	9/21/2022 15:01	81ad2d3bc84f56e59d289b06f6ddc82b5a9679acc17e2ae1e219f7767 7f8105b
/usr/share/cbg/web/media/3rdParty/fontawesome/css/regular.min.css	9/21/2022 15:01	f5407b8c2fa87a4b93c87c10f41b322418a345864b77f2a2be4e89f0fe db023a
/usr/share/cbg/web/media/clearBallot/css/webVoteCenters.css	9/21/2022 15:01	601c788555cf4f4e240b6b7d1de90efa1829f0002e6e8c8e359f1d13e 393d0c6
/usr/share/cbg/web/media/3rdParty/vue/js/bootstrap-vue.js	9/21/2022 15:01	db33b40e9b89c342c3a43f05ad5cb25d455e9deccecf4d182f6260e87 bb3802f
/usr/share/cbg/web/media/clearBallot/js/test/write-in-component.spec.js	9/21/2022 15:01	0313302913cc2b6a18915716fb0214d2a097de516070fb44af82fe461 9b147f5

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/3rdParty/DataTables/js/fixHeader.bootstrap.js	9/21/2022 15:01	2365516062b7a36d2f090ddc55e4274ff4a1eaa1d8f385de51f16e3dd6bcc3e1
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery.tooltip.min.js	9/21/2022 15:01	2cff4066bb7f544cd444277a9249f1a0eb5bff2687133ce0e9523559d32ca4f8
/usr/share/cbg/web/media/clearBallot/img/print.png	9/21/2022 15:01	56efc7161f8c36454f011542fd51c4c515fd8a64e4e499834daaf0415bc55bd1
/usr/share/cbg/web/media/clearBallot/img/back_enabled.png	9/21/2022 15:01	9fd6f47b90ca92e855bdf80a0d57178af3a59c307e5c0246bb24dc781d3ae69b
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-solid-900.woff2	9/21/2022 15:01	8d86fae5265d97fb99e40108128776ef137a0f05e4147895820add73c26c05b1
/usr/share/cbg/web/media/clearBallot/img/forward_enabled.png	9/21/2022 15:01	bcb3b13b5aaf9015767aff77d621f1f9557adcd8eb8284d06f0b51e2475556b0
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery-1.10.2.js	9/21/2022 15:01	8ade6740a1d3cfedf81e28d9250929341207b23a55f1be90ccc26cf6d98e052a
/usr/share/cbg/web/media/clearBallot/img/csv.png	9/21/2022 15:01	d1ddfd7d80b19736d956c00dbe6a9dde454e0b48e732975a89f0d9ec8ca5646c
/usr/share/cbg/web/media/clearBallot/js/test/header-component.spec.js	9/21/2022 15:01	3849409206d10baa2145e56b7fd279f1ec90e9d22050c1429f86559ebb126b67
/usr/share/cbg/web/media/clearBallot/img/xs-CB-Logotype-White-01.png	9/21/2022 15:01	64e4ce856482b2885827a1f7e01ec50258499e505f2b750814cf5b4045c0d0f3
/usr/share/cbg/web/media/3rdParty/DataTables/js/dataTables.bootstrap.min.js	9/21/2022 15:01	5ffe7cb3959b946300c3d4a90edaa757c74b44d09ac2cc86c0daa7643d097bfb

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/3rdParty/DataTables/js/buttons.html5.js	9/21/2022 15:01	b09b60bdd655f3d58584354fb314d5ceaae0fbcaebcb28998725c1ec5 3d211b5
/usr/share/cbg/web/media/clearBallot/img/back_disabled.png	9/21/2022 15:01	6950463a4f9db9435b8df01fa276eaf88aa65b8913b82e979317d7413 05bb5d6
/usr/share/cbg/web/media/3rdParty/bootstrap/img/glyphicons- halfings-white.png	9/21/2022 15:01	f0e0d95a9c8abcdfabf46348e2d4285829bb0491f5f6af0e05af52bffb6 324c4
/usr/share/cbg/web/media/3rdParty/chosen/css/chosen-sprite.png	9/21/2022 15:01	8aa69ee6b2376505578d758bfbbc52aec88fa5e591f1a7cabd8adfa80 a7b613a
/usr/share/cbg/web/media/clearBallot/img/back_enabled_hover.png	9/21/2022 15:01	b3a398bdb9afa40edff875c14c972ac9329e018e2e5e175ebb8e104c5 9be37e1
/usr/share/cbg/web/media/clearBallot/js/ballot_remaking.js	9/21/2022 15:01	98eca01a7cc64c2bdcf42f55fc12b54bf8dd3b6ee81ae5cd6326e66d1b 67fa2f
/usr/share/cbg/web/media/clearBallot/img/favicon.ico	9/21/2022 15:01	c3164bf5b672736c062451b5f90dabeb116afabb4bd3369a478a3e41 92acc25f
/usr/share/cbg/web/media/clearBallot/img/sort_desc.png	9/21/2022 15:01	26da8e7eaf746a08dec2928977be21aa67212484540a12042b86aa2d 904b80e8
/usr/share/cbg/web/media/clearBallot/css/vue_layout.css	9/21/2022 15:01	e1af16ac352b969c79fc69eab18434d0c083f1830e9e83f6817f3566ed 95a0b2
/usr/share/cbg/web/media/clearBallot/js/jquery.pep.js	9/21/2022 15:01	7dd48aa0fa11f1c7599e43a7e99d245afc487f722965f4bc816f60d340 3f736f
/usr/share/cbg/web/media/clearBallot/css/ovals.css	9/21/2022 15:01	8032972b1a4d0e1a2cade5b31aad70b9a5eedddced922126ff6b2e60 b7cefbcf

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/img/pdf.png	9/21/2022 15:01	178bccf4fa6246c4e983e1b45bd521c929fa197321ccafdc0c8c0dce79 9699b2
/usr/share/cbg/web/media/3rdParty/DataTables/js/jquery.dataTables.min.js	9/21/2022 15:01	dda1d592ee93c534549248a26efc13cf993cc1cef1b84af542a4c1f8ea 3943b2
/usr/share/cbg/web/media/clearBallot/img/copy.png	9/21/2022 15:01	a0feeab39e2b27cd966f77ebac68be4b3638eae7b51b61431bf860a1b b6da929
/usr/share/cbg/web/scripts/harden.sh	9/21/2022 15:01	a8cf93ca7c60a94f86f6ac14ed4bb869dd00e21ab75c0c7bb3d03f8be2 497e34
/usr/share/cbg/web/media/3rdParty/jquery-splitter/css/jquery.splitter.css	9/21/2022 15:01	d4b15f199d2d6e8ddc60270d21fb6cb701f954ba1c1c19c9851829934 42a50fb
/usr/share/cbg/web/media/3rdParty/vue/css/bootstrap-vue.css	9/21/2022 15:01	e8754886f391a7d304f8be360a2ec91ab063d06aa7dd075b8f8cd4dd cbbb67d
/usr/share/cbg/web/media/3rdParty/chosen/css/chosen.css	9/21/2022 15:01	d0b8c9bab2c9a1ad63707691c0c0e75f6110f15a60a543054ffe22f931 2d2f27
/usr/share/cbg/web/media/3rdParty/DataTables/js/buttons.colVis.js	9/21/2022 15:01	265852e4c980235e3f9dd2b803004ceaf93d7a26ad42bdc3d308b1c5 820e034d
/usr/share/cbg/web/media/3rdParty/chosen/js/chosen.jquery.min.js	9/21/2022 15:01	73881513a7e7f8944a311bea8e80e9fad946e256ae74d62b5c8d469d c6df0186
/usr/share/cbg/web/media/3rdParty/bootstrap/css/bootstrap.css	9/21/2022 15:01	6224babffc4fa5eb43da9adca9c14bb330946b89748bf85aaa28d787f4 4a6d29
/usr/share/cbg/web/media/clearBallot/img/sort_asc.png	9/21/2022 15:01	ee6010bb0a8d17e58307136a0fbf0b196d949ab6c50eb66d1ff8f0a7d 2a4d48b

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/js/layout.js	9/21/2022 15:01	5fa352210d299cf6fb07ccbff2c8d8da5996c48aebb1cf5963ff3f317e56450a
/usr/share/cbg/web/media/clearBallot/css/style.css	9/21/2022 15:01	dfdded6226748d6c59e1b980db07188a334f35bb95aa5b3c6cffdd0e0e1d75fb
/usr/share/cbg/web/media/3rdParty/vue/js/vue.js	9/21/2022 15:01	b9f18495bdd39ceb7397913873fa909d91463fe1581198f991b48474936bc340
/usr/share/cbg/web/media/clearBallot/img/sort_asc_disabled.png	9/21/2022 15:01	539d9e0fc1f3b7196e726c4985397ad804082193d21e68cdf258764d34f85ff6
/usr/share/cbg/web/media/clearBallot/js/test/README.txt	9/21/2022 15:01	11a9ffd9f486b4d92e03cee4388e3dfc2e8bccce482458968f3532399c9d86fb
/usr/share/cbg/web/BallotMonitor	9/21/2022 15:01	3a44802e1ab3a0ef0bc6ea6a644683ecdfb7b87390f157c1c9b7ed5c62615887
/usr/share/cbg/web/media/3rdParty/fontawesome/css/solid.min.css	9/21/2022 15:01	94634ee14f5e1c912659a97cc48bf72563e0688d56a3c79fd4fcd2a915e089f5
/usr/share/cbg/web/media/3rdParty/DataTables/js/buttons.print.js	9/21/2022 15:01	f409b6871003246ec7ece12c9efd171f6e869a284124afc036bbc52ff6d52fc7
/usr/share/cbg/web/media/clearBallot/img/pdf_hover.png	9/21/2022 15:01	a0c883c30bf77280618eba2ce08de7e1377bff15955ebf024deee72819f33945
/usr/share/cbg/web/webCBG.fcgi	9/21/2022 15:01	55e1d08a332ccf592bbe945ee8eacd3c470b91383f3d93aa4d1177bd7d74b534
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-regular-400.eot	9/21/2022 15:01	1922089ffa5345a55b6df7094c1d0997707735b522c92a72a75e11d82e7f5bf9

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/3rdParty/bootstrap/img/glyphicons-halflings.png	9/21/2022 15:01	d99e3fa32c641032f08149914b28c2dc6acf2ec62f70987f2259eabbfa7fc0de
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fa-solid-900.eot	9/21/2022 15:01	d495a9a78fae6f491bbab99883cb88da02d00e8f723b6161ae74e9e5a8ba1803
/usr/share/cbg/web/media/clearBallot/img/print_hover.png	9/21/2022 15:01	dfd041e39e9342f1706335301e65b2fe1bbed3ecce90aeed1b6880b3177dc5c9
/usr/share/cbg/web/media/3rdParty/bootstrap/css/bootstrap4.css	9/21/2022 15:01	177ed3a35bb708c78a1cb665c1cfc4fb252501948b1477a81ed44ab137414c84
/usr/share/cbg/web/media/3rdParty/bootstrap/js/bootstrap4.js	9/21/2022 15:01	b012bca21d0b2266d5301c4a86ef58f13f9d44b67b1957add648d90e1a9d89a3
/usr/share/cbg/web/media/clearBallot/img/xs-CB-Logo-White-01.png	9/21/2022 15:01	27b673eb4c30c667f328fac2eedd9044da3ebdd295c74112cc85b840c3167dfd
/usr/share/cbg/web/sql/cbgweb.sql	9/21/2022 15:01	18d1826717dd66588330ea4158f1af9b3250a779b9e07d1076b935e80c1f5cbe
/usr/share/cbg/web/media/clearBallot/css/print.css	9/21/2022 15:01	ea7a76d7074180944884cecaa55dd84ba02f9e609e8af97f6207ecb9c7e945b1
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery.hotkeys.js	9/21/2022 15:01	27a36f34a861f9ca7184f3a8dd719fcdcb17cb823b769c8beeb11f4c19b861a53a
/usr/share/cbg/web/media/3rdParty/jquery/js/jquery-migrate-1.2.1.min.js	9/21/2022 15:01	1e67d8dbcca1f6fd94e077c85c2fb40fa1c2756c99238daa8da882144260a68d
/usr/share/cbg/web/media/clearBallot/js/test/names-component.spec.js	9/21/2022 15:01	0d0ff75a7ed145617a4afddd2308ca643ff7ecd1f933e56a5a6fbc86b4af5b4f

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/web/media/clearBallot/js/jquery.dataTables.customizations.js	9/21/2022 15:01	16062b1c9d5ecd387a6cd3cfd1cdf616e10b08ce9553226701d5048c478de621
/usr/share/cbg/web/media/3rdParty/fontawesome/webfonts/fontawesome-solid-900.ttf	9/21/2022 15:01	4a2b854cdb9a06462bbd3efea63e9cbd7f1e47b7e84a606d906f46a1f7dc0d88
/usr/share/cbg/web/media/3rdParty/chosen/css/chosen-sprite@2x.png	9/21/2022 15:01	1e349b80fba8c23b63656925fda8dfe3c5927b5d0d8a1672143416caacf460fb
/usr/share/cbg/web/media/clearBallot/js/jquery.pep.min.js	9/21/2022 15:01	db6088a8bda6d531510f6cc8848c23e9a5cd93d2c0facdd8f35b2f160228fbb6
/usr/share/cbg/web/media/clearBallot/img/xls_hover.png	9/21/2022 15:01	4aeef987c05055d78ff769f7ad4d871b897fced597d77fcc92ace6945d99f5bd
/usr/share/cbg/web/media/3rdParty/vue/js/bootstrap-vue.min.js	9/21/2022 15:01	f1d89a5dbb460a891f32d963390aa2ff97c451017427d0896940789c5470f3c5
/usr/share/cbg/web/scripts/generate_certificate.sh	9/21/2022 15:01	2fb0bd3f6085bbb6a4021899c23a080673a392251026d9c738971041a54938e8
/usr/share/cbg/web/media/clearBallot/img/sort_desc_disabled.png	9/21/2022 15:01	3450cc1e5a1585690226a713a726753b3fa2d177e41338a36e0a3188e3f02663
/usr/share/cbg/client/ResultsUploader.exe	9/21/2022 15:01	dfa42706d3bcf17d45c74eb5b03e4162f401ffc34c059f850ba803192b5764a7
/usr/share/cbg/client/StartUploader.cmd	9/21/2022 15:01	f85d1987cab281d2f88df366d39e2adf196f5582e8dc0effaf6d41b8e77cf32b
/usr/share/cbg/client/DeleteBox.bat	9/21/2022 15:01	dcd2f60e0f5eed2531bbb35fd229459588a806c2eb880363f078f7b93c57ff98

Table 2-1. Installed Clear Ballot product files. (continued)

File	Date	File Digest
/usr/share/cbg/client/GetScannerInfo.exe	9/21/2022 15:01	fdb7c5c33800262267b00927af23b81867ca1d8dff362878ea67c9c4c87c46fa
/usr/share/cbg/client/BallotTabulator.exe	9/21/2022 15:01	4244d016f3d6fba189c878c4ca2c0bfe41982f00503bda6b201cc4771099f7f3
/usr/share/cbg/client/UpdateScanner.bat	9/21/2022 15:01	4be96c623511ee7387786472af9db25e0cb84ae370bece5454ed130d5b41f8e7
/usr/share/cbg/client/StartTabulator.cmd	9/21/2022 15:01	32aa1654290df50f54a2ad19d362469548577e5853cfaf4b3172b28da43995eb
/usr/share/cbg/client/profiles/ClearBallotProfile.CAB	9/21/2022 15:01	cb70d2e5ef0af79903cd4bb4f5b13eef59d56163447069c3581f9dca35d8b20b
/usr/share/cbg/client/SetupScanner.exe	9/21/2022 15:01	50de1944243e1797c6f0466473b93b046c6476b4459eac3c8ebde5a61bd6b41
/usr/share/cbg/client/BallotDeleteBox.exe	9/21/2022 15:01	69a9b51664987b21de261f130ac30003230c257053f35ff23e6969c2c20e06fb
/usr/share/cbg/client/archive_manager.exe	9/21/2022 15:01	b7cc4b0a6cd8f81b1a77554c9e0ea1eac2881cd398fb2e9d7dab92d3182634ca

Chapter 3. Installed third-party software

Table 3-1 lists the third-party software that is installed on the ClearCount system. Clear Ballot does *not* modify any of the listed third-party software.

Table 3-1. Installed third-party software.

Package	Version	Description
accountsservice	0.6.45-1ubuntu1	query and manipulate user account information
acl	2.2.52-3build1	Access control list utilities
activity-log-manager	0.9.7-0ubuntu26	blacklist configuration user interface for Zeitgeist
adduser	3.116ubuntu1	add and remove users and groups
adwaita-icon-theme	3.28.0-1ubuntu1	default icon theme of GNOME (small subset)
amd64-microcode	3.20191021.1+really3.20181128.1~ubuntu0.18.04.1	Processor microcode firmware for AMD CPUs
apache2	2.4.29-1ubuntu4.25	Apache HTTP Server
apache2-bin	2.4.29-1ubuntu4.25	Apache HTTP Server (modules and other binary files)
apache2-data	2.4.29-1ubuntu4.25	Apache HTTP Server (common files)
apache2-utils	2.4.29-1ubuntu4.25	Apache HTTP Server (utility programs for web servers)
apg	2.2.3.dfsg.1-5	Automated Password Generator - Standalone version
apparmor	2.12-4ubuntu5.1	user-space parser utility for AppArmor
apparmor-utils	2.12-4ubuntu5.1	utilities for controlling AppArmor
apport	2.20.9-0ubuntu7.16	automatically generate crash reports for debugging
apt	1.6.12ubuntu0.1	commandline package manager

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
apt-utils	1.6.12ubuntu0.1	package management related utility programs
aptdaemon	1.1.1+bzr982-0ubuntu19.5	transaction based package management service
aptdaemon-data	1.1.1+bzr982-0ubuntu19.5	data files for clients
aspell	0.60.7~20110707-4ubuntu0.2	GNU Aspell spell-checker
aspell-en	2017.08.24-0-0.1	English dictionary for GNU Aspell
at-spi2-core	2.28.0-1	Assistive Technology Service Provider Interface (dbus core)
attr	1:2.4.47-2build1	Utilities for manipulating filesystem extended attributes
auditd	1:2.8.2-1ubuntu1.1	User space tools for security auditing
avahi-daemon	0.7-3.1ubuntu1.3	Avahi mDNS/DNS-SD daemon
avahi-utils	0.7-3.1ubuntu1.3	Avahi browsing, publishing and discovery utilities
base-files	10.1ubuntu2.9	Debian base system miscellaneous files
base-passwd	3.5.44	Debian base system master password and group files
bash	4.4.18-2ubuntu1.2	GNU Bourne Again SHell
bind9-host	1:9.11.3+dfsg-1ubuntu1.12	DNS lookup utility (deprecated)
bluetooth	5.48-0ubuntu3.9	Bluetooth tools and daemons
bluez-obexd	5.48-0ubuntu3.9	bluez obex daemon
bsdmainutils	11.1.2ubuntu1	collection of more utilities from FreeBSD
bsdutils	1:2.31.1-0.4ubuntu3.6	basic utilities from 4.BSD-Lite

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
bubblewrap	0.2.1-1ubuntu0.1	setuid wrapper for unprivileged chroot and namespace manipulation
busybox-initramfs	1:1.27.2-2ubuntu3.2	Standalone shell setup for initramfs
bzip2	1.0.6-8.1ubuntu0.2	high-quality block-sorting file compressor - utilities
ca-certificates	20190110~18.04.1	Common CA certificates
cheese-common	3.28.0-1ubuntu1	Common files for the Cheese tool to take pictures and videos
clearcount	2.3.1	ClearCount Election Tabulation and Reporting System
colord	1.3.3-2build1	system service to manage device colour profiles -- system daemon
colord-data	1.3.3-2build1	system service to manage device colour profiles -- data files
console-setup	1.178ubuntu2.9	console font and keymap setup program
console-setup-linux	1.178ubuntu2.9	Linux specific part of console-setup
coreutils	8.28-1ubuntu1	GNU core utilities
cpio	2.12+dfsg-6ubuntu0.18.04.1	GNU cpio -- a program to manage archives of files
cpp	4:7.4.0-1ubuntu2.3	GNU C preprocessor (cpp)
cpp-7	7.5.0-3ubuntu1~18.04	GNU C preprocessor
cracklib-runtime	2.9.2-5build1	runtime support for password checker library cracklib2
crda	3.18-1build1	wireless Central Regulatory Domain Agent

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
cron	3.0pl1-128.1ubuntu1	process scheduling daemon
cups-pk-helper	0.2.6-1ubuntu1.2	PolicyKit helper to configure cups with fine-grained privileges
curl	7.58.0-2ubuntu3.9	command line tool for transferring data with URL syntax
dash	0.5.8-2.10	POSIX-compliant shell
dbus	1.12.2-1ubuntu1.3	simple interprocess messaging system (daemon and utilities)
dbus-user-session	1.12.2-1ubuntu1.3	simple interprocess messaging system (systemd --user integration)
dbus-x11	1.12.2-1ubuntu1.3	simple interprocess messaging system (X11 deps)
dconf-cli	0.26.0-2ubuntu3	simple configuration storage system - utilities
dconf-gsettings-backend	0.26.0-2ubuntu3	simple configuration storage system - GSettings back-end
dconf-service	0.26.0-2ubuntu3	simple configuration storage system - D-Bus service
debconf	1.5.66ubuntu1	Debian configuration management system
debconf-i18n	1.5.66ubuntu1	full internationalization support for debconf
debiutils	4.8.4	Miscellaneous utilities specific to Debian
desktop-base	8.0.2ubuntu1	common files for the Debian Desktop
desktop-file-utils	0.23-1ubuntu3.18.04.2	Utilities for .desktop files
dictionaries-common	1.27.2	spelling dictionaries - common utilities
diffutils	1:3.6-1	File comparison utilities

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
dirmngr	2.2.4-1ubuntu1.2	GNU privacy guard - network certificate management service
distro-info-data	0.37ubuntu0.7	information about the distributions' releases (data files)
dmeventd	2:1.02.145-4.1ubuntu3.18.04.3	Linux Kernel Device Mapper event daemon
dmidecode	3.1-1ubuntu0.1	SMBIOS/DMI table decoder
dmsetup	2:1.02.145-4.1ubuntu3.18.04.3	Linux Kernel Device Mapper userspace library
dns-root-data	2018013001	DNS root data including root zone and DNSSEC key
dnsmasq-base	2.79-1	Small caching DNS proxy and DHCP/TFTP server
dosfstools	4.1-1	utilities for making and checking MS-DOS FAT filesystems
dpkg	1.19.0.5ubuntu2.3	Debian package management system
e2fsprogs	1.44.1-1ubuntu1.3	ext2/ext3/ext4 file system utilities
efibootmgr	15-1	Interact with the EFI Boot Manager
eject	2.1.5+deb1+cvcs20081104-13.2	ejects CDs and operates CD-Changers under Linux
emacsen-common	2.0.8	Common facilities for all emacsen
enchant	1.6.0-11.1	Wrapper for various spell checker engines (binary programs)
evolution-data-server	3.28.5-0ubuntu0.18.04.3	evolution database backend server
evolution-data-server-common	3.28.5-0ubuntu0.18.04.3	architecture independent files for Evolution Data Server
exfat-fuse	1.2.8-1	read and write exFAT driver for FUSE
exfat-utils	1.2.8-1	utilities to create, check, label and dump exFAT filesystem

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
exo-utils	0.12.2-0ubuntu0.18.04.1	Utility files for libexo
fdisk	2.31.1-0.4ubuntu3.6	collection of partitioning utilities
file	1:5.32-2ubuntu0.4	Recognize the type of data in a file using "magic" numbers
findutils	4.6.0+git+20170828-2	utilities for finding files--find, xargs
fontconfig	2.12.6-0ubuntu2	generic font configuration library - support binaries
fontconfig-config	2.12.6-0ubuntu2	generic font configuration library - configuration
fonts-dejavu-core	2.37-1	Vera font family derivate with additional characters
fonts-noto-hinted	20171026-2	"No Tofu" font families with large Unicode coverage (hinted)
fonts-ubuntu	0.83-2	sans-serif font set from Ubuntu
fuse	2.9.7-1ubuntu1	Filesystem in Userspace
gcc-7-base	7.5.0-3ubuntu1~18.04	GCC, the GNU Compiler Collection (base package)
gcc-8-base	8.4.0-1ubuntu1~18.04	GCC, the GNU Compiler Collection (base package)
gconf-service	3.2.6-4ubuntu1	GNOME configuration database system (D-Bus service)
gconf-service-backend	3.2.6-4ubuntu1	GNOME configuration database system (D-Bus service)
gconf2	3.2.6-4ubuntu1	GNOME configuration database system (support tools)
gconf2-common	3.2.6-4ubuntu1	GNOME configuration database system (common files)
gcr	3.28.0-1	GNOME crypto services (daemon and tools)
gdisk	1.0.3-1	GPT fdisk text-mode partitioning tool

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
geoclue	0.12.99-4ubuntu2	Geographic information framework
geoclue-2.0	2.4.7-1ubuntu1	geoinformation service
geoclue-ubuntu-geoip	1.0.2+18.04.20180223-0ubuntu1	Provide positioning for GeoClue via Ubuntu GeoIP services
geoip-database	20180315-1	IP lookup command line tools that use the GeoIP library (country database)
gettext-base	0.19.8.1-6ubuntu0.3	GNU Internationalization utilities for the base system
gir1.2-atk-1.0	2.28.1-1	ATK accessibility toolkit (GObject introspection)
gir1.2-freedesktop	1.56.1-1	Introspection data for some FreeDesktop components
gir1.2-gdkpixbuf-2.0	2.36.11-2	GDK Pixbuf library - GObject-Introspection
gir1.2-glib-2.0	1.56.1-1	Introspection data for GLib, GObject, Gio and GModule
gir1.2-gtk-3.0	3.22.30-1ubuntu4	GTK+ graphical user interface library -- gir bindings
gir1.2-ibus-1.0	1.5.17-3ubuntu5.3	Intelligent Input Bus - introspection data
gir1.2-notify-0.7	0.7.7-3ubuntu0.18.04.1	sends desktop notifications to a notification daemon (Introspection files)
gir1.2-packagekitglib-1.0	1.1.9-1ubuntu2.18.04.6	GObject introspection data for the PackageKit GLib library
gir1.2-pango-1.0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text - gir bindings
gir1.2-polkit-1.0	0.105-20ubuntu0.18.04.6	GObject introspection data for PolicyKit
gir1.2-secret-1	0.18.6-1	Secret store (GObject-Introspection)

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
gir1.2-vte-2.91	0.52.2-1ubuntu1~18.04.2	GObject introspection data for the VTE library
gkbd-capplet	3.26.0-3ubuntu0.18.04.1	GNOME control center tools for libgnomekbd
glib-networking	2.56.0-1ubuntu0.1	network-related giomodules for GLib
glib-networking-common	2.56.0-1ubuntu0.1	network-related giomodules for GLib - data files
glib-networking-services	2.56.0-1ubuntu0.1	network-related giomodules for GLib - D-Bus services
gnome-accessibility-themes	3.28-1ubuntu1	High Contrast GTK+ 2 theme and icons
gnome-bluetooth	3.28.0-2ubuntu0.2	GNOME Bluetooth tools
gnome-control-center	1:3.28.2-0ubuntu0.18.04.6	utilities to configure the GNOME desktop
gnome-control-center-data	1:3.28.2-0ubuntu0.18.04.6	configuration applets for GNOME - data files
gnome-control-center-faces	1:3.28.2-0ubuntu0.18.04.6	utilities to configure the GNOME desktop - faces images
gnome-desktop3-data	3.28.2-0ubuntu1.5	Common files for GNOME desktop apps
gnome-keyring	3.28.0.2-1ubuntu1.18.04.1	GNOME keyring services (daemon and tools)
gnome-keyring-pkcs11	3.28.0.2-1ubuntu1.18.04.1	GNOME keyring module for the PKCS#11 module loading library
gnome-menus	3.13.3-11ubuntu1.1	GNOME implementation of the freedesktop menu specification
gnome-online-accounts	3.28.0-0ubuntu2.1	service to manage online accounts for the GNOME desktop
gnome-power-manager	3.26.0-1	power management tool for the GNOME desktop
gnome-screensaver	3.6.1-8ubuntu3	GNOME screen saver and locker

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
gnome-session-bin	3.28.1-0ubuntu3	GNOME Session Manager - Minimal runtime
gnome-session-common	3.28.1-0ubuntu3	GNOME Session Manager - common files
gnome-settings-daemon	3.28.1-0ubuntu1.3	daemon handling the GNOME session settings
gnome-settings-daemon-schemas	3.28.1-0ubuntu1.3	Shared schemas for gnome-settings-daemon
gnome-startup-applications	3.28.1-0ubuntu3	Startup Applications manager for GNOME
gnome-themes-extra	3.28-1ubuntu1	Adwaita GTK+ 2 theme "engine"
gnome-themes-extra-data	3.28-1ubuntu1	Adwaita GTK+ 2 theme "common files"
gnome-themes-standard	3.28-1ubuntu1	Adwaita GTK+ 2 theme "engine - transitional package"
gnome-user-docs	3.28.2+git20180715-0ubuntu0.1	GNOME user's guide
gnupg	2.2.4-1ubuntu1.2	GNU privacy guard - a free PGP replacement
gnupg-l10n	2.2.4-1ubuntu1.2	GNU privacy guard - localization files
gnupg-utils	2.2.4-1ubuntu1.2	GNU privacy guard - utility programs
gpg	2.2.4-1ubuntu1.2	GNU Privacy Guard -- minimalist public key operations
gpg-agent	2.2.4-1ubuntu1.2	GNU privacy guard - cryptographic agent
gpg-wks-client	2.2.4-1ubuntu1.2	GNU privacy guard - Web Key Service client
gpg-wks-server	2.2.4-1ubuntu1.2	GNU privacy guard - Web Key Service server
gpgconf	2.2.4-1ubuntu1.2	GNU privacy guard - core configuration utilities

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
gpgsm	2.2.4-1ubuntu1.2	GNU privacy guard - S/MIME version
gpgv	2.2.4-1ubuntu1.2	GNU privacy guard - signature verification tool
grep	3.1-2build1	GNU grep, egrep and fgrep
greybird-gtk-theme	3.22.8-1	grey GTK+ theme from the Shimmer Project
groff-base	1.22.3-10	GNU troff text-formatting system (base system components)
grub-common	2.02-2ubuntu8.17	GRand Unified Bootloader (common files)
grub-efi-amd64	2.02-2ubuntu8.17	GRand Unified Bootloader, version 2 (EFI-AMD64 version)
grub-efi-amd64-bin	2.02-2ubuntu8.17	GRand Unified Bootloader, version 2 (EFI-AMD64 binaries)
grub-efi-amd64-signed	1.93.19+2.02-2ubuntu8.17	GRand Unified Bootloader, version 2 (EFI-AMD64 version, signed)
grub2-common	2.02-2ubuntu8.17	GRand Unified Bootloader (common files for version 2)
gsettings-desktop-schemas	3.28.0-1ubuntu1	GSettings desktop-wide schemas
gsettings-ubuntu-schemas	0.0.7+17.10.20170922-0ubuntu1	GSettings desktop-wide schemas for Ubuntu
gststreamer1.0-clutter-3.0	3.0.26-1	Clutter PPlugin for GStreamer 1.0
gststreamer1.0-gl	1.14.5-0ubuntu1~18.04.3	GStreamer plugins for GL
gststreamer1.0-plugins-base	1.14.5-0ubuntu1~18.04.3	GStreamer plugins from the "base" set
gststreamer1.0-plugins-good	1.14.5-0ubuntu1~18.04.3	GStreamer plugins from the "good" set
gststreamer1.0-pulseaudio	1.14.5-0ubuntu1~18.04.3	GStreamer plugin for PulseAudio

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
gstreamer1.0-x	1.14.5-0ubuntu1~18.04.3	GStreamer plugins for X11 and Pango
gtk-update-icon-cache	3.22.30-1ubuntu4	icon theme caching utility
gtk2-engines-murrine	0.98.2-2ubuntu1	cairo-based gtk+-2.0 theme engine
gtk2-engines-pixbuf	2.24.32-1ubuntu1	pixbuf-based theme for GTK+ 2.x
gtk2-engines-xfce	3.2.0-3	GTK+-2.0 theme engine for Xfce
gvfs	1.36.1-0ubuntu1.3.3	userspace virtual filesystem - GIO module
gvfs-backends	1.36.1-0ubuntu1.3.3	userspace virtual filesystem - backends
gvfs-common	1.36.1-0ubuntu1.3.3	userspace virtual filesystem - common data files
gvfs-daemons	1.36.1-0ubuntu1.3.3	userspace virtual filesystem - servers
gvfs-libs	1.36.1-0ubuntu1.3.3	userspace virtual filesystem - private libraries
gzip	1.6-5ubuntu1	GNU compression utilities
hicolor-icon-theme	0.17-2	default fallback theme for FreeDesktop.org icon themes
hostname	3.2	utility to set/show the host name or domain name
humanity-icon-theme	0.6.15	Humanity Icon theme
hunspell-en-us	1:2017.08.24	English_american dictionary for hunspell
ibus	1.5.17-3ubuntu5.3	Intelligent Input Bus - core
ibus-gtk	1.5.17-3ubuntu5.3	Intelligent Input Bus - GTK+2 support
ibus-gtk3	1.5.17-3ubuntu5.3	Intelligent Input Bus - GTK+3 support

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
ibverbs-providers	17.1-1ubuntu0.2	User space provider drivers for libibverbs
iio-sensor-proxy	2.4-2	IIO sensors to D-Bus proxy
im-config	0.34-1ubuntu1.3	Input method configuration framework
indicator-applet	12.10.2+17.10.20170425-0ubuntu1	GNOME panel indicator applet
indicator-application	12.10.1+18.04.20190308.1-0ubuntu1	Application Indicators
indicator-bluetooth	0.0.6+17.10.20170605-0ubuntu3	System bluetooth indicator.
indicator-common	16.10.0+18.04.20180321.1-0ubuntu1	indicator shared files
indicator-datetime	15.10+17.10.20170829.2-0ubuntu4	Simple clock
indicator-keyboard	0.0.0+18.04.20180216-0ubuntu1	Keyboard indicator
indicator-messages	13.10.1+17.04.20170120-0ubuntu2	indicator that collects messages that need a response
indicator-power	12.10.6+17.10.20170829.1-0ubuntu4	Indicator showing power state.
indicator-session	17.3.20+17.10.20171006-0ubuntu1	indicator showing session management, status and user switching
indicator-sound	12.10.2+18.04.20180420.3-0ubuntu1	System sound indicator.
init	1.51	metapackage ensuring an init system is installed
init-system-helpers	1.51	helper tools for all init systems
initramfs-tools	0.130ubuntu3.9	generic modular initramfs generator (automation)
initramfs-tools-bin	0.130ubuntu3.9	binaries used by initramfs-tools

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
initramfs-tools-core	0.130ubuntu3.9	generic modular initramfs generator (core tools)
installation-report	2.62ubuntu1	system installation report
intel-microcode	3.20200609.0ubuntu0.18.04.1	Processor microcode firmware for Intel CPUs
ippusbxd	1.32-2	Daemon for IPP USB printer support
iproute2	4.15.0-2ubuntu1.2	networking and traffic control tools
iptables	1.6.1-2ubuntu2	administration tools for packet filtering and NAT
iputils-arping	3:20161105-1ubuntu3	Tool to send ICMP echo requests to an ARP address
iputils-ping	3:20161105-1ubuntu3	Tools to test the reachability of network hosts
isc-dhcp-client	4.3.5-3ubuntu7.1	DHCP client for automatically obtaining an IP address
isc-dhcp-common	4.3.5-3ubuntu7.1	common manpages relevant to all of the isc-dhcp packages
iso-codes	3.79-1	ISO language, territory, currency, script codes and their translations
iucode-tool	2.3.1-1	Intel processor microcode tool
iw	4.14-0.1	tool for configuring Linux wireless devices
kbd	2.0.4-2ubuntu1	Linux console font and keytable utilities
keyboard-configuration	1.178ubuntu2.9	system-wide keyboard preferences
klibc-utils	2.0.4-9ubuntu2	small utilities built with klibc for early boot
kmod	24-1ubuntu3.5	tools for managing Linux kernel modules

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
krb5-locales	1.16-2ubuntu0.1	internationalization support for MIT Kerberos
language-selector-common	0.188.3	Language selector for Ubuntu
language-selector-gnome	0.188.3	Language selector for Ubuntu
laptop-detect	0.16	system chassis type checker
leafpad	0.8.18.1-5	GTK+ based simple text editor
less	487-0.1	pager program similar to more
libaa1	1.4p5-44build2	ASCII art library
libaccounts-glib0	1.23+17.04.20161104-0ubuntu1	library for single signon
libaccounts-service0	0.6.45-1ubuntu1	query and manipulate user account information - shared libraries
libacl1	2.2.52-3build1	Access control list shared library
libaio1	0.3.110-5ubuntu0.1	Linux kernel AIO access library - shared library
libapache2-mod-fcgid	1:2.3.9-1	FastCGI interface module for Apache 2
libapparmor1	2.12-4ubuntu5.1	changehat AppArmor library
libappindicator3-1	12.10.1+18.04.20200408.1-0ubuntu1	Application Indicators
libappstream4	0.12.0-3ubuntu1	Library to access AppStream services
libapr1	1.6.3-2	Apache Portable Runtime Library
libaprutil1	1.6.1-2	Apache Portable Runtime Utility Library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libaprutil1-dbd-sqlite3	1.6.1-2	Apache Portable Runtime Utility Library - SQLite3 Driver
libaprutil1-ldap	1.6.1-2	Apache Portable Runtime Utility Library - LDAP Driver
libapt-inst2.0	1.6.12ubuntu0.1	deb package format runtime library
libapt-pkg5.0	1.6.12ubuntu0.1	package management runtime library
libarchive13	3.2.2-3.1ubuntu0.7	Multi-format archive and compression library (shared library)
libargon2-0	0~20161029-1.1	memory-hard hashing function - runtime library
libart-2.0-2	2.3.21-3	Library of functions for 2D graphics - runtime files
libasn1-8-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - ASN.1 library
libasound2	1.1.3-5ubuntu0.6	shared library for ALSA applications
libasound2-data	1.1.3-5ubuntu0.6	Configuration files and profiles for ALSA drivers
libasound2-plugins	1.1.1-1ubuntu1	ALSA library additional plugins
libaspell15	0.60.7~20110707-4ubuntu0.2	GNU Aspell spell-checker runtime library
libassuan0	2.5.1-2	IPC library for the GnuPG components
libasyncns0	0.8-6	Asynchronous name service query library
libatasmart4	0.19-4	ATA S.M.A.R.T. reading and parsing library
libatk-bridge2.0-0	2.26.2-1	AT-SPI 2 toolkit bridge - shared library
libatk1.0-0	2.28.1-1	ATK accessibility toolkit
libatk1.0-data	2.28.1-1	Common files for the ATK accessibility toolkit

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libatkmm-1.6-1v5	2.24.2-3	C++ wrappers for ATK accessibility toolkit (shared libraries)
libatm1	1:2.5.1-2build1	shared library for ATM (Asynchronous Transfer Mode)
libatspi2.0-0	2.28.0-1	Assistive Technology Service Provider Interface - shared library
libattr1	1:2.4.47-2build1	Extended attribute shared library
libaudit-common	1:2.8.2-1ubuntu1	Dynamic library for security auditing - common files
libaudit1	1:2.8.2-1ubuntu1	Dynamic library for security auditing
libauparse0	1:2.8.2-1ubuntu1.1	Dynamic library for parsing security auditing
libauthen-sasl-perl	2.1600-1	Authen::SASL - SASL Authentication framework
libavahi-client3	0.7-3.1ubuntu1.3	Avahi client library
libavahi-common-data	0.7-3.1ubuntu1.3	Avahi common data files
libavahi-common3	0.7-3.1ubuntu1.3	Avahi common library
libavahi-core7	0.7-3.1ubuntu1.3	Avahi's embeddable mDNS/DNS-SD library
libavahi-glib1	0.7-3.1ubuntu1.3	Avahi GLib integration library
libavc1394-0	0.5.4-4build1	control IEEE 1394 audio/video devices
libbind9-160	1:9.11.3+dfsg-1ubuntu1.12	BIND9 Shared Library used by BIND
libblkid1	2.31.1-0.4ubuntu3.6	block device ID library
libblockdev-crypto2	2.16-2	Crypto plugin for libblockdev
libblockdev-fs2	2.16-2	file system plugin for libblockdev

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libblockdev-loop2	2.16-2	Loop device plugin for libblockdev
libblockdev-part-err2	2.16-2	Partition error utility functions for libblockdev
libblockdev-part2	2.16-2	Partitioning plugin for libblockdev
libblockdev-swap2	2.16-2	Swap plugin for libblockdev
libblockdev-utils2	2.16-2	Utility functions for libblockdev
libblockdev2	2.16-2	Library for manipulating block devices
libbluetooth3	5.48-0ubuntu3.9	Library to use the BlueZ Linux Bluetooth stack
libbonobo2-0	2.32.1-3	Bonobo CORBA interfaces library
libbonobo2-common	2.32.1-3	Bonobo CORBA interfaces library -- support files
libbonoboui2-0	2.24.5-4	Bonobo UI library - runtime
libbonoboui2-common	2.24.5-4	Bonobo UI library - common files
libboost-system1.65.1	1.65.1+dfsg-0ubuntu5	Operating system (e.g. diagnostics support) library
libboost-thread1.65.1	1.65.1+dfsg-0ubuntu5	portable C++ multi-threading
libbrotli1	1.0.3-1ubuntu1.3	library implementing brotli encoder and decoder (shared libraries)
libbsd0	0.8.7-1ubuntu0.1	utility functions from BSD systems - shared library
libbz2-1.0	1.0.6-8.1ubuntu0.2	high-quality block-sorting file compressor library - runtime
libc-bin	2.27-3ubuntu1.2	GNU C Library: Binaries

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libc6	2.27-3ubuntu1.2	GNU C Library: Shared libraries
libcaca0	0.99.beta19-2ubuntu0.18.04.3	colour ASCII art library
libcairo-gobject2	1.15.10-2ubuntu0.1	Cairo 2D vector graphics library (GObject library)
libcairo2	1.15.10-2ubuntu0.1	Cairo 2D vector graphics library
libcairomm-1.0-1v5	1.12.2-3	C++ wrappers for Cairo (shared libraries)
libcamel-1.2-61	3.28.5-0ubuntu0.18.04.3	Evolution MIME message handling library
libcanberra-gtk3-0	0.30-5ubuntu1	GTK+ 3.0 helper for playing widget event sounds with libcanberra
libcanberra-gtk3-module	0.30-5ubuntu1	translates GTK3 widgets signals to event sounds
libcanberra-pulse	0.30-5ubuntu1	PulseAudio backend for libcanberra
libcanberra0	0.30-5ubuntu1	simple abstract interface for playing event sounds
libcap-ng0	0.7.7-3.1	An alternate POSIX capabilities library
libcap2	1:2.25-1.2	POSIX 1003.1e capabilities (library)
libcap2-bin	1:2.25-1.2	POSIX 1003.1e capabilities (utilities)
libcdio-cdda2	10.2+0.94+2-2build1	library to read and control digital audio CDs
libcdio-paranoia2	10.2+0.94+2-2build1	library to read digital audio CDs with error correction
libcdio17	1.0.0-2ubuntu2	library to read and control CD-ROM
libcdparanoia0	3.10.2+debian-13	audio extraction tool for sampling CDs (library)

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libcephfs2	12.2.13-0ubuntu0.18.04.10	Ceph distributed file system client library
libcgi-fast-perl	1:2.13-1	CGI subclass for work with FCGI
libcgi-pm-perl	4.38-1	module for Common Gateway Interface applications
libcheese-gtk25	3.28.0-1ubuntu1	tool to take pictures and videos from your webcam - widgets
libcheese8	3.28.0-1ubuntu1	tool to take pictures and videos from your webcam - base library
libclutter-1.0-0	1.26.2+dfsg-4	Open GL based interactive canvas library
libclutter-1.0-common	1.26.2+dfsg-4	Open GL based interactive canvas library (common files)
libclutter-gst-3.0-0	3.0.26-1	Open GL based interactive canvas library GStreamer elements
libclutter-gtk-1.0-0	1.8.4-3	Open GL based interactive canvas library GTK+ widget
libcogl-common	1.22.2-3ubuntu1	Object oriented GL/GLES Abstraction/Utility Layer (common files)
libcogl-pango20	1.22.2-3ubuntu1	Object oriented GL/GLES Abstraction/Utility Layer
libcogl-path20	1.22.2-3ubuntu1	Object oriented GL/GLES Abstraction/Utility Layer
libcogl20	1.22.2-3ubuntu1	Object oriented GL/GLES Abstraction/Utility Layer
libcolord-gtk1	0.1.26-2	GTK+ convenience library for interacting with colord
libcolord2	1.3.3-2build1	system service to manage device colour profiles -- runtime
libcolorhug2	1.3.3-2build1	library to access the ColorHug colourimeter -- runtime

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libcom-err2	1.44.1-1ubuntu1.3	common error description library
libcrack2	2.9.2-5build1	pro-active password checker library
libcroco3	0.6.12-2	Cascading Style Sheet (CSS) parsing and manipulation toolkit
libcryptsetup12	2:2.0.2-1ubuntu1.1	disk encryption support - shared library
libcups2	2.2.7-1ubuntu2.9	Common UNIX Printing System(tm) - Core library
libcurl3-gnutls	7.58.0-2ubuntu3.9	easy-to-use client-side URL transfer library (GnuTLS flavour)
libcurl4	7.58.0-2ubuntu3.9	easy-to-use client-side URL transfer library (OpenSSL flavour)
libdaemon0	0.14-6	lightweight C library for daemons - runtime library
libdata-dump-perl	1.23-1	Perl module to help dump data structures
libdatrie1	0.2.10-7	Double-array trie library
libdb5.3	5.3.28-13.1ubuntu1.1	Berkeley v5.3 Database Libraries [runtime]
libdbus-1-3	1.12.2-1ubuntu1.3	simple interprocess messaging system (library)
libdbus-glib-1-2	0.110-2	deprecated library for D-Bus IPC
libdbusmenu-glib4	16.04.1+18.04.20171206-0ubuntu2	library for passing menus over D-Bus
libdbusmenu-gtk3-4	16.04.1+18.04.20171206-0ubuntu2	library for passing menus over D-Bus - GTK+ version
libdconf1	0.26.0-2ubuntu3	simple configuration storage system - runtime library
libdebconfclient0	0.213ubuntu1	Debian Configuration Management System (C-implementation library)

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libdee-1.0-4	1.2.7+17.10.20170616-0ubuntu4	model to synchronize multiple instances over Dbus - shared lib
libdevmapper-event1.02.1	2:1.02.145-4.1ubuntu3.18.04.3	Linux Kernel Device Mapper event support library
libdevmapper1.02.1	2:1.02.145-4.1ubuntu3.18.04.3	Linux Kernel Device Mapper userspace library
libdigest-hmac-perl	1.03+dfsg-1	module for creating standard message integrity checks
libdns-export1100	1:9.11.3+dfsg-1ubuntu1.12	Exported DNS Shared Library
libdns1100	1:9.11.3+dfsg-1ubuntu1.12	DNS Shared Library used by BIND
libdrm-amdgpu1	2.4.101-2~18.04.1	Userspace interface to amdgpu-specific kernel DRM services -- runtime
libdrm-common	2.4.101-2~18.04.1	Userspace interface to kernel DRM services -- common files
libdrm-intel1	2.4.101-2~18.04.1	Userspace interface to intel-specific kernel DRM services -- runtime
libdrm-nouveau2	2.4.101-2~18.04.1	Userspace interface to nouveau-specific kernel DRM services -- runtime
libdrm-radeon1	2.4.101-2~18.04.1	Userspace interface to radeon-specific kernel DRM services -- runtime
libdrm2	2.4.101-2~18.04.1	Userspace interface to kernel DRM services -- runtime
libdv4	1.0.0-11	software library for DV format digital video (runtime lib)
libbackend-1.2-10	3.28.5-0ubuntu0.18.04.3	Utility library for evolution data servers
libebook-1.2-19	3.28.5-0ubuntu0.18.04.3	Client library for evolution address books

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libebook-contacts-1.2-2	3.28.5-0ubuntu0.18.04.3	Client library for evolution contacts books
libecal-1.2-19	3.28.5-0ubuntu0.18.04.3	Client library for evolution calendars
libedata-book-1.2-25	3.28.5-0ubuntu0.18.04.3	Backend library for evolution address books
libedata-cal-1.2-28	3.28.5-0ubuntu0.18.04.3	Backend library for evolution calendars
libedataserver-1.2-23	3.28.5-0ubuntu0.18.04.3	Utility library for evolution data servers
libedit2	3.1-20170329-1	BSD editline and history libraries
libefiboot1	34-1	Library to manage UEFI variables
libefivar1	34-1	Library to manage UEFI variables
libegl-mesa0	20.0.8-0ubuntu1~18.04.1	free implementation of the EGL API -- Mesa vendor library
libegl1	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- EGL support
libelf1	0.170-0.4ubuntu0.1	library to read and write ELF files
libenchant1c2a	1.6.0-11.1	Wrapper library for various spell checker engines (runtime libs)
libencode-locale-perl	1.05-1	utility to determine the locale encoding
libepoxy0	1.4.3-1	OpenGL function pointer management library
libestr0	0.1.10-2.1	Helper functions for handling strings (lib)
libevdev2	1.5.8+dfsg-1ubuntu0.2	wrapper library for evdev devices
libevent-core-2.1-6	2.1.8-stable-4build1	Asynchronous event notification library (core)
libexif12	0.6.21-4ubuntu0.6	library to parse EXIF files

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libexo-1-0	0.12.2-0ubuntu0.18.04.1	Library with extensions for Xfce (GTK-2 version)
libexo-2-0	0.12.2-0ubuntu0.18.04.1	Library with extensions for Xfce (GTK-3 version)
libexo-common	0.12.2-0ubuntu0.18.04.1	libexo common files
libexo-helpers	0.12.2-0ubuntu0.18.04.1	helpers for the exo library
libexpat1	2.2.5-3ubuntu0.2	XML parsing C library - runtime library
libext2fs2	1.44.1-1ubuntu1.3	ext2/ext3/ext4 file system libraries
libfastjson4	0.99.8-2	fast json library for C
libfcgi-perl	0.78-2build1	helper module for FastCGI
libfcitx-config4	1:4.2.9.6-1	Flexible Input Method Framework - configuration support library
libfcitx-gclient1	1:4.2.9.6-1	Flexible Input Method Framework - D-Bus client library for Glib
libfcitx-utils0	1:4.2.9.6-1	Flexible Input Method Framework - utility support library
libfdisk1	2.31.1-0.4ubuntu3.6	fdisk partitioning library
libffi6	3.2.1-8	Foreign Function Interface library runtime
libfile-copy-recursive-perl	0.40-1	Perl extension for recursively copying files and directories
libfile-listing-perl	6.04-1	module to parse directory listings
libflac8	1.3.2-1	Free Lossless Audio Codec - runtime C library
libfont-afm-perl	1.20-2	Font::AFM - Interface to Adobe Font Metrics files

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libfontconfig1	2.12.6-0ubuntu2	generic font configuration library - runtime
libfontenc1	1:1.1.3-1	X11 font encoding library
libfreetype6	2.8.1-2ubuntu2	FreeType 2 font engine, shared library files
libfribidi0	0.19.7-2	Free Implementation of the Unicode BiDi algorithm
libfuse2	2.9.7-1ubuntu1	Filesystem in Userspace (library)
libgail-common	2.24.32-1ubuntu1	GNOME Accessibility Implementation Library -- common modules
libgail18	2.24.32-1ubuntu1	GNOME Accessibility Implementation Library -- shared libraries
libgarcon-1-0	0.6.1-2	freedesktop.org compliant menu implementation for Xfce
libgarcon-common	0.6.1-2	common files for libgarcon menu implementation
libgbm1	20.0.8-0ubuntu1~18.04.1	generic buffer management API -- runtime
libgcc1	1:8.4.0-1ubuntu1~18.04	GCC support library
libgck-1-0	3.28.0-1	Glib wrapper library for PKCS#11 - runtime
libgconf-2-4	3.2.6-4ubuntu1	GNOME configuration database system (shared libraries)
libgcr-base-3-1	3.28.0-1	Library for Crypto related tasks
libgcr-ui-3-1	3.28.0-1	Library for Crypto UI related tasks
libgcrypt20	1.8.1-4ubuntu1.2	LGPL Crypto library - runtime library
libgd3	2.2.5-4ubuntu0.5	GD Graphics Library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libgdata-common	0.17.9-2	Library for accessing GData webservices - common data files
libgdata22	0.17.9-2	Library for accessing GData webservices - shared libraries
libgdbm-compat4	1.14.1-6	GNU dbm database routines (legacy support runtime version)
libgdbm5	1.14.1-6	GNU dbm database routines (runtime version)
libgdk-pixbuf2.0-0	2.36.11-2	GDK Pixbuf library
libgdk-pixbuf2.0-bin	2.36.11-2	GDK Pixbuf library (thumbnailer)
libgdk-pixbuf2.0-common	2.36.11-2	GDK Pixbuf library - data files
libgee-0.8-2	0.20.1-1	GObject based collection and utility library
libgeoclue-2-0	2.4.7-1ubuntu1	convenience library to interact with geoinformation service
libgeoclue0	0.12.99-4ubuntu2	C API for GeoClue
libgeocode-glib0	3.25.4.1-4ubuntu0.18.04.1	geocoding and reverse geocoding GLib library using Nominatim
libgeoip1	1.6.12-1	non-DNS IP-to-country resolver library
libgeonames-common	0.2+17.04.20170220-0ubuntu1	geonames - data files
libgeonames0	0.2+17.04.20170220-0ubuntu1	Parse and query the geonames database dump
libgirepository-1.0-1	1.56.1-1	Library for handling GObject introspection data (runtime library)
libgl1	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- legacy GL support
libgl1-mesa-dri	20.0.8-0ubuntu1~18.04.1	free implementation of the OpenGL API -- DRI modules

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libgl1-mesa-glx	20.0.8-0ubuntu1~18.04.1	transitional dummy package
libglade2-0	1:2.6.4-2	library to load .glade files at runtime
libglapi-mesa	20.0.8-0ubuntu1~18.04.1	free implementation of the GL API -- shared library
libgles2	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- GLESv2 support
libglib2.0-0	2.56.4-0ubuntu0.18.04.9	GLib library of C routines
libglib2.0-bin	2.56.4-0ubuntu0.18.04.9	Programs for the GLib library
libglib2.0-data	2.56.4-0ubuntu0.18.04.6	Common files for GLib library
libglibmm-2.4-1v5	2.56.0-1	C++ wrapper for the GLib toolkit (shared libraries)
libglu1-mesa	9.0.0-2.1build1	Mesa OpenGL utility library (GLU)
libglvnd0	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library
libglx-mesa0	20.0.8-0ubuntu1~18.04.1	free implementation of the OpenGL API -- GLX vendor library
libglx0	1.0.0-2ubuntu2.3	Vendor neutral GL dispatch library -- GLX support
libgmime-3.0-0	3.2.0-1	MIME message parser and creator library
libgmp10	2:6.1.2+dfsg-2	Multiprecision arithmetic library
libgnome-2-0	2.32.1-6	Deprecated GNOME 2 library - runtime files
libgnome-bluetooth13	3.28.0-2ubuntu0.2	GNOME Bluetooth tools - support library
libgnome-desktop-3-17	3.28.2-0ubuntu1.5	Utility library for loading .desktop files - runtime files
libgnome-keyring-common	3.12.0-1build1	GNOME keyring services library - data files

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libgnome-keyring0	3.12.0-1build1	GNOME keyring services library
libgnome-menu-3-0	3.13.3-11ubuntu1.1	GNOME implementation of the freedesktop menu specification
libgnome2-common	2.32.1-6	Deprecated GNOME 2 library - common files
libgnomecanvas2-0	2.30.3-3	powerful object-oriented display engine - runtime files
libgnomecanvas2-common	2.30.3-3	powerful object-oriented display engine - common files
libgnomekbd-common	3.26.0-3ubuntu0.18.04.1	GNOME library to manage keyboard configuration - common files
libgnomekbd8	3.26.0-3ubuntu0.18.04.1	GNOME library to manage keyboard configuration - shared library
libgnomeui-0	2.24.5-3.2	GNOME user interface library - runtime files
libgnomeui-common	2.24.5-3.2	GNOME user interface library - common files
libgnomevfs2-0	1:2.24.4-6.1ubuntu2	GNOME Virtual File System (runtime libraries)
libgnomevfs2-common	1:2.24.4-6.1ubuntu2	GNOME Virtual File System (common files)
libgnutls30	3.5.18-1ubuntu1.4	GNU TLS library - main runtime library
libgoa-1.0-0b	3.28.0-0ubuntu2.1	library for GNOME Online Accounts
libgoa-1.0-common	3.28.0-0ubuntu2.1	library for GNOME Online Accounts - common files
libgoa-backend-1.0-1	3.28.0-0ubuntu2.1	backend library for GNOME Online Accounts
libgpg-error0	1.27-6	library for common error values and messages in GnuPG components

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libpgme11	1.10.0-1ubuntu2	GPGME - GnuPG Made Easy (library)
libphoto2-6	2.5.16-2	gphoto2 digital camera library
libphoto2-l10n	2.5.16-2	gphoto2 digital camera library - localized messages
libphoto2-port12	2.5.16-2	gphoto2 digital camera port library
libgpm2	1.20.7-5	General Purpose Mouse - shared library
libgraphene-1.0-0	1.8.0-1	library of graphic data types
libgraphite2-3	1.3.11-2	Font rendering engine for Complex Scripts -- library
libgrilo-0.3-0	0.3.4-1ubuntu0.1	Framework for discovering and browsing media - Shared libraries
libgssapi-krb5-2	1.16-2ubuntu0.1	MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
libgssapi3-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - GSSAPI support library
libgstreamer-gl1.0-0	1.14.5-0ubuntu1~18.04.3	GStreamer GL libraries
libgstreamer-plugins-base1.0-0	1.14.5-0ubuntu1~18.04.3	GStreamer libraries from the "base" set
libgstreamer-plugins-good1.0-0	1.14.5-0ubuntu1~18.04.3	GStreamer development files for libraries from the "good" set
libgstreamer1.0-0	1.14.5-0ubuntu1~18.04.2	Core GStreamer libraries and elements
libgtk-3-0	3.22.30-1ubuntu4	GTK+ graphical user interface library
libgtk-3-bin	3.22.30-1ubuntu4	programs for the GTK+ graphical user interface library
libgtk-3-common	3.22.30-1ubuntu4	common files for the GTK+ graphical user interface library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libgtk2.0-0	2.24.32-1ubuntu1	GTK+ graphical user interface library
libgtk2.0-bin	2.24.32-1ubuntu1	programs for the GTK+ graphical user interface library
libgtk2.0-common	2.24.32-1ubuntu1	common files for the GTK+ graphical user interface library
libgtkmm-3.0-1v5	3.22.2-2	C++ wrappers for GTK+ (shared libraries)
libgtop-2.0-11	2.38.0-2ubuntu0.18.04.1	gtop system monitoring library (shared)
libgtop2-common	2.38.0-2ubuntu0.18.04.1	gtop system monitoring library (common)
libgudev-1.0-0	1:232-2	GObject-based wrapper library for libudev
libusb2	0.2.11-1	GLib wrapper around libusb1
libgweather-3-15	3.28.2-1~ubuntu18.04.1	GWeather shared library
libgweather-common	3.28.2-1~ubuntu18.04.1	GWeather common files
libharfbuzz-icu0	1.7.2-1ubuntu1	OpenType text shaping engine ICU backend
libharfbuzz0b	1.7.2-1ubuntu1	OpenType text shaping engine (shared library)
libcrypto4-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - crypto library
libheimbase1-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - Base library
libheimntlm0-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - NTLM support library
libhogweed4	3.4-1	low level cryptographic library (public-key cryptos)
libhtml-form-perl	6.03-1	module that represents an HTML form element
libhtml-format-perl	2.12-1	module for transforming HTML into various formats

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libhtml-parser-perl	3.72-3build1	collection of modules that parse HTML text documents
libhtml-tagset-perl	3.20-3	Data tables pertaining to HTML
libhtml-template-perl	2.97-1	module for using HTML templates with Perl
libhtml-tree-perl	5.07-1	Perl module to represent and create HTML syntax trees
libhttp-cookies-perl	6.04-1	HTTP cookie jars
libhttp-daemon-perl	6.01-1ubuntu0.1	simple http server class
libhttp-date-perl	6.02-1	module of date conversion routines
libhttp-message-perl	6.14-1	perl interface to HTTP style messages
libhttp-negotiate-perl	6.00-2	implementation of content negotiation
libhunspell-1.6-0	1.6.2-1	spell checker and morphological analyzer (shared library)
libhx509-5-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - X509 support library
libhyphen0	2.8.8-5	ALTLinux hyphenation library - shared library
libibus-1.0-5	1.5.17-3ubuntu5.3	Intelligent Input Bus - shared library
libibverbs1	17.1-1ubuntu0.2	Library for direct userspace use of RDMA (InfiniBand/iWARP)
libical3	3.0.1-5	iCalendar library implementation in C (runtime)
libice6	2:1.0.9-2	X11 Inter-Client Exchange library
libicu60	60.2-3ubuntu3.1	International Components for Unicode
libidn11	1.33-2.1ubuntu1.2	GNU Libidn library, implementation of IETF IDN specifications

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libidn2-0	2.0.4-1.1ubuntu0.2	Internationalized domain names (IDNA2008/TR46) library
libido3-0.1-0	13.10.0+17.04.20161028-0ubuntu1	Shared library providing extra gtk menu items for display in
libiec61883-0	1.2.0-2	partial implementation of IEC 61883 (shared lib)
libieee1284-3	0.2.11-13	cross-platform library for parallel port access
libimobiledevice6	1.2.1~git20171128.5a854327+dfsg-0.1	Library for communicating with the iPhone and iPod Touch
libindicator3-7	16.10.0+18.04.20180321.1-0ubuntu1	panel indicator applet - shared library
libinput-bin	1.10.4-1ubuntu0.18.04.3	input device management and event handling library - udev quirks
libinput10	1.10.4-1ubuntu0.18.04.3	input device management and event handling library - shared library
libio-html-perl	1.001-1	open an HTML file with automatic charset detection
libio-socket-inet6-perl	2.72-2	object interface for AF_INET6 domain sockets
libio-socket-ssl-perl	2.060-3~ubuntu18.04.1	Perl module implementing object oriented interface to SSL sockets
libip4tc0	1.6.1-2ubuntu2	netfilter libip4tc library
libip6tc0	1.6.1-2ubuntu2	netfilter libip6tc library
libiptc0	1.6.1-2ubuntu2	netfilter libiptc library
libisc-export169	1:9.11.3+dfsg-1ubuntu1.12	Exported ISC Shared Library
libisc169	1:9.11.3+dfsg-1ubuntu1.12	ISC Shared Library used by BIND

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libisccc160	1:9.11.3+dfsg-1ubuntu1.12	Command Channel Library used by BIND
libiscfg160	1:9.11.3+dfsg-1ubuntu1.12	Config File Handling Library used by BIND
libisl19	0.19-1	manipulating sets and relations of integer points bounded by linear constraints
libjack-jackd2-0	1.9.12~dfsg-2	JACK Audio Connection Kit (libraries)
libjansson4	2.11-1	C library for encoding, decoding and manipulating JSON data
libjavascriptcoregtk-4.0-18	2.32.4-0ubuntu0.18.04.1	JavaScript engine library from WebKitGTK+
libjbig0	2.1-3.1build1	JBIGkit libraries
libjpeg-turbo-progs	1.5.2-0ubuntu5.18.04.4	Programs for manipulating JPEG files
libjpeg-turbo8	1.5.2-0ubuntu5.18.04.4	IJG JPEG compliant runtime library.
libjpeg8	8c-2ubuntu8	Independent JPEG Group's JPEG runtime library (dependency package)
libjson-c3	0.12.1-1.3ubuntu0.3	JSON manipulation library - shared library
libjson-glib-1.0-0	1.4.2-3ubuntu0.18.04.1	GLib JSON manipulation library
libjson-glib-1.0-common	1.4.2-3ubuntu0.18.04.1	GLib JSON manipulation library (common files)
libk5crypto3	1.16-2ubuntu0.1	MIT Kerberos runtime libraries - Crypto Library
libkeybinder-3.0-0	0.3.2-1	registers global key bindings for applications - Gtk+3
libkeyutils1	1.5.9-9.2ubuntu2	Linux Key Management Utilities (library)

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libklibc	2.0.4-9ubuntu2	minimal libc subset for use with initramfs
libkmod2	24-1ubuntu3.5	libkmod shared library
libkrb5-26-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - libraries
libkrb5-3	1.16-2ubuntu0.1	MIT Kerberos runtime libraries
libkrb5support0	1.16-2ubuntu0.1	MIT Kerberos runtime libraries - Support library
libksba8	1.3.5-2	X.509 and CMS support library
liblcms2-2	2.9-1ubuntu0.1	Little CMS 2 color management library
libldap-2.4-2	2.4.45+dfsg-1ubuntu1.6	OpenLDAP libraries
libldap-common	2.4.45+dfsg-1ubuntu1.6	OpenLDAP common files for libraries
libldb1	2:1.2.3-1ubuntu0.2	LDAP-like embedded database - shared library
liblightdm-gobject-1-0	1.26.0-0ubuntu1	LightDM GObject client library
liblvm10	1:10.0.0-4ubuntu1~18.04.2	Modular compiler and toolchain technologies, runtime library
liblocale-gettext-perl	1.07-3build2	module using libc functions for internationalization in Perl
libltdl7	2.4.6-2	System independent dlopen wrapper for GNU libtool
liblua5.2-0	5.2.4-1.1build1	Shared library for the Lua interpreter version 5.2
liblvm2app2.2	2.02.176-4.1ubuntu3.18.04.3	LVM2 application library
liblvm2cmd2.02	2.02.176-4.1ubuntu3.18.04.3	LVM2 command library
liblwp-mediatypes-perl	6.02-1	module to guess media type for a file or a URL

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
liblwp-protocol-https-perl	6.07-2	HTTPS driver for LWP::UserAgent
liblwres160	1:9.11.3+dfsg-1ubuntu1.12	Lightweight Resolver Library used by BIND
liblz4-1	0.0~r131-2ubuntu3	Fast LZ compression algorithm library - runtime
liblzma5	5.2.2-1.3	XZ-format compression library
liblzo2-2	2.08-1.2	data compression library
libmagic-mgc	1:5.32-2ubuntu0.4	File type determination library using "magic" numbers (compiled magic file)
libmagic1	1:5.32-2ubuntu0.4	Recognize the type of data in a file using "magic" numbers - library
libmailtools-perl	2.18-1	Manipulate email in perl programs
libmbim-glib4	1.18.0-1~ubuntu18.04.1	Support library to use the MBIM protocol
libmbim-proxy	1.18.0-1~ubuntu18.04.1	Proxy to communicate with MBIM ports
libmessaging-menu0	13.10.1+17.04.20170120-0ubuntu2	Messaging Menu - shared library
libmm-glib0	1.10.0-1~ubuntu18.04.2	D-Bus service for managing modems - shared libraries
libmn0	1.0.4-2	minimalistic Netlink communication library
libmount1	2.31.1-0.4ubuntu3.6	device mounting library
libmp3lame0	3.100-2	MP3 encoding library
libmpc3	1.1.0-1	multiple precision complex floating-point library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libmpdec2	2.4.2-1ubuntu1	library for decimal floating point arithmetic (runtime library)
libmpfr6	4.0.1-1	multiple precision floating-point computation
libmpg123-0	1.25.10-1	MPEG layer 1/2/3 audio decoder (shared library)
libmtdev1	1.1.5-1ubuntu3	Multitouch Protocol Translation Library - shared library
libmtp-common	1.1.13-1	Media Transfer Protocol (MTP) common files
libmtp-runtime	1.1.13-1	Media Transfer Protocol (MTP) runtime tools
libmtp9	1.1.13-1	Media Transfer Protocol (MTP) library
libncurses5	6.1-1ubuntu1.18.04	shared libraries for terminal handling
libncursesw5	6.1-1ubuntu1.18.04	shared libraries for terminal handling (wide character support)
libndp0	1.6-1	Library for Neighbor Discovery Protocol
libnet-http-perl	6.17-1	module providing low-level HTTP connection client
libnet-smtp-ssl-perl	1.04-1	Perl module providing SSL support to Net::SMTP
libnet-ssleay-perl	1.84-1ubuntu0.2	Perl module for Secure Sockets Layer (SSL)
libnetfilter-contrack3	1.0.6-2	Netfilter netlink-contrack library
libnetplan0	0.99-0ubuntu3~18.04.3	YAML network configuration abstraction runtime library
libnettle6	3.4-1	low level cryptographic library (symmetric and one-way cryptos)
libnewt0.52	0.52.20-1ubuntu1	Not Erik's Windowing Toolkit - text mode windowing with slang

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libnfnetlink0	1.0.1-3	Netfilter netlink library
libnghttp2-14	1.30.0-1ubuntu1	library implementing HTTP/2 protocol (shared library)
libnl-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets
libnl-genl-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets - generic netlink
libnl-route-3-200	3.2.29-0ubuntu3	library for dealing with netlink sockets - route interface
libnm-glib4	1.10.6-2ubuntu1.4	network management framework (GLib shared library)
libnm-gtk0	1.8.10-2ubuntu3	library for wireless and mobile dialogs (libnm-glib version)
libnm-util2	1.10.6-2ubuntu1.4	network management framework (shared library)
libnm0	1.10.6-2ubuntu1.4	GObject-based client library for NetworkManager
libnma0	1.8.10-2ubuntu3	library for wireless and mobile dialogs (libnm version)
libnotify-bin	0.7.7-3ubuntu0.18.04.1	sends desktop notifications to a notification daemon (Utilities)
libnotify4	0.7.7-3ubuntu0.18.04.1	sends desktop notifications to a notification daemon
libnpth0	1.5-3	replacement for GNU Pth using system threads
libnspr4	2:4.18-1ubuntu1	NetScape Portable Runtime Library
libnss-mdns	0.10-8ubuntu1	NSS module for Multicast DNS name resolution
libnss-myhostname	237-3ubuntu10.56	nss module providing fallback resolution for the current hostname
libnss-systemd	237-3ubuntu10.42	nss module providing dynamic user and group name resolution

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libnss3	2:3.35-2ubuntu2.15	Network Security Service libraries
libntfs-3g88	1:2017.3.23-2ubuntu0.18.04.2	read/write NTFS driver for FUSE (runtime library)
libnuma1	2.0.11-2.1ubuntu0.1	Libraries for controlling NUMA policy
liboauth0	1.0.3-1	C library implementing OAuth Core 1.0a API (runtime)
libogg0	1.3.2-1	Ogg bitstream library
libopus0	1.1.2-1ubuntu1	Opus codec runtime library
liborbit-2-0	1:2.14.19-4	high-performance CORBA implementation - common libraries
liborc-0.4-0	1:0.4.28-1	Library of Optimized Inner Loops Runtime Compiler
libp11-kit0	0.23.9-2ubuntu0.1	library for loading and coordinating access to PKCS#11 modules - runtime
libpackagekit-glib2-18	1.1.9-1ubuntu2.18.04.6	Library for accessing PackageKit using GLib
libpam-cap	1:2.25-1.2	POSIX 1003.1e capabilities (PAM module)
libpam-gnome-keyring	3.28.0.2-1ubuntu1.18.04.1	PAM module to unlock the GNOME keyring upon login
libpam-modules	1.1.8-3.6ubuntu2.18.04.1	Pluggable Authentication Modules for PAM
libpam-modules-bin	1.1.8-3.6ubuntu2.18.04.1	Pluggable Authentication Modules for PAM - helper binaries
libpam-pwquality	1.4.0-2	PAM module to check password strength
libpam-runtime	1.1.8-3.6ubuntu2.18.04.1	Runtime support for the PAM library
libpam-systemd	237-3ubuntu10.42	system and service manager - PAM module

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libpam0g	1.1.8-3.6ubuntu2.18.04.1	Pluggable Authentication Modules library
libpanel-applet3	1:3.26.0-1ubuntu5	library for GNOME Panel applets
libpango-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libpangocairo-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libpangoft2-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libpangomm-1.4-1v5	2.40.1-4	C++ Wrapper for pango (shared libraries)
libpangoft-1.0-0	1.40.14-1ubuntu0.1	Layout and rendering of internationalized text
libparted-fs-resize0	3.2-20ubuntu0.2	disk partition manipulator - shared FS resizing library
libparted2	3.2-20ubuntu0.2	disk partition manipulator - shared library
libpcap0.8	1.8.1-6ubuntu1.18.04.1	system interface for user-level packet capture
libpci3	1:3.5.2-1ubuntu1.1	Linux PCI Utilities (shared library)
libpciaccess0	0.14-1	Generic PCI access library for X
libpcre3	2:8.39-9	Old Perl 5 Compatible Regular Expression Library - runtime files
libpcsclite1	1.8.23-1	Middleware to access a smart card using PC/SC (library)
libperl5.26	5.26.1-6ubuntu0.3	shared Perl library
libphonenumbers7	7.1.0-5ubuntu5	parsing/formatting/validating phone numbers
libpipeline1	1.5.0-1	pipeline manipulation library
libpixman-1-0	0.34.0-2	pixel-manipulation library for X and cairo

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libplist3	2.0.0-2ubuntu1	Library for handling Apple binary and XML property lists
libplymouth4	0.9.3-1ubuntu7.18.04.2	graphical boot animation and logger - shared libraries
libpng16-16	1.6.34-1ubuntu0.18.04.2	PNG library - runtime (version 1.6)
libpolkit-agent-1-0	0.105-20ubuntu0.18.04.6	PolicyKit Authentication Agent API
libpolkit-backend-1-0	0.105-20ubuntu0.18.04.6	PolicyKit backend API
libpolkit-gobject-1-0	0.105-20ubuntu0.18.04.6	PolicyKit Authorization API
libpoppler-glib8	0.62.0-2ubuntu2.14	PDF rendering library (GLib-based shared library)
libpoppler73	0.62.0-2ubuntu2.14	PDF rendering library
libpopt0	1.16-11	lib for parsing cmdline parameters
libprocps6	2:3.3.12-3ubuntu1.2	library for accessing process information from /proc
libprotobuf10	3.0.0-9.1ubuntu1	protocol buffers C++ library
libproxy1v5	0.4.15-1ubuntu0.2	automatic proxy configuration management library (shared)
libpsl5	0.19.1-5build1	Library for Public Suffix List (shared libraries)
libpulse-mainloop-glib0	1:11.1-1ubuntu7.11	PulseAudio client libraries (glib support)
libpulse0	1:11.1-1ubuntu7.11	PulseAudio client libraries
libpulsedsp	1:11.1-1ubuntu7.11	PulseAudio OSS pre-load library
libpwquality-common	1.4.0-2	library for password quality checking and generation (data files)
libpwquality1	1.4.0-2	library for password quality checking and generation

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libpython-stdlib	2.7.15~rc1-1	interactive high-level object-oriented language (default python version)
libpython2.7	2.7.17-1~18.04ubuntu1.8	Shared Python runtime library (version 2.7)
libpython2.7-minimal	2.7.17-1~18.04ubuntu1.8	Minimal subset of the Python language (version 2.7)
libpython2.7-stdlib	2.7.17-1~18.04ubuntu1.8	Interactive high-level object-oriented language (standard library, version 2.7)
libpython3-stdlib	3.6.7-1~18.04	interactive high-level object-oriented language (default python3 version)
libpython3.6-minimal	3.6.9-1~18.04ubuntu1.1	Minimal subset of the Python language (version 3.6)
libpython3.6-stdlib	3.6.9-1~18.04ubuntu1.1	Interactive high-level object-oriented language (standard library, version 3.6)
libqmi-glib5	1.22.0-1.2~ubuntu18.04.1	Support library to use the Qualcomm MSM Interface (QMI) protocol
libqmi-proxy	1.22.0-1.2~ubuntu18.04.1	Proxy to communicate with QMI ports
librados2	12.2.13-0ubuntu0.18.04.10	RADOS distributed object store client library
libraw1394-11	2.1.2-1	library for direct access to IEEE 1394 bus (aka FireWire)
libreadline5	5.2+dfsg-3build1	GNU readline and history libraries, run-time libraries
libreadline7	7.0-3	GNU readline and history libraries, run-time libraries
librest-0.7-0	0.8.0-2	REST service access library
libroken18-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - roken support library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
librsvg2-2	2.40.20-2ubuntu0.2	SAX-based renderer library for SVG files (runtime)
librsvg2-common	2.40.20-2ubuntu0.2	SAX-based renderer library for SVG files (extra runtime)
librtmp1	2.4+20151223.gitfa8646d.1-1	toolkit for RTMP streams (shared library)
libsamplerate0	0.1.9-1	Audio sample rate conversion library
libsane-common	1.0.27-1~experimental3ubuntu2.4	API library for scanners -- documentation and support files
libsane1	1.0.27-1~experimental3ubuntu2.4	API library for scanners
libsasl2-2	2.1.27~101-g0780600+dfsg-3ubuntu2.1	Cyrus SASL - authentication abstraction library
libsasl2-modules	2.1.27~101-g0780600+dfsg-3ubuntu2.1	Cyrus SASL - pluggable authentication modules
libsasl2-modules-db	2.1.27~101-g0780600+dfsg-3ubuntu2.1	Cyrus SASL - pluggable authentication modules (DB)
libsbc1	1.3-2	Sub Band CODEC library - runtime
libseccomp2	2.4.3-1ubuntu3.18.04.3	high level interface to Linux seccomp filter
libsecret-1-0	0.18.6-1	Secret store
libsecret-common	0.18.6-1	Secret store (common files)
libselinux1	2.7-2build2	SELinux runtime shared libraries
libsemanage-common	2.7-2build2	Common files for SELinux policy management libraries
libsemanage1	2.7-2build2	SELinux policy management library
libsensors4	1:3.4.0-4ubuntu0.1	library to read temperature/voltage/fan sensors
libsepol1	2.7-1	SELinux library for manipulating binary security policies

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libshout3	2.4.1-2build1	MP3/Ogg Vorbis broadcast streaming library
libsigc++-2.0-0v5	2.10.0-2	type-safe Signal Framework for C++ - runtime
libslang2	2.3.1a-3ubuntu1	S-Lang programming library - runtime version
libsm6	2:1.2.2-1	X11 Session Management library
libsmartcols1	2.31.1-0.4ubuntu3.6	smart column output alignment library
libsmbclient	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	shared library for communication with SMB/CIFS servers
libsnapd-glib1	1.58-0ubuntu0.18.04.0	GLib snapd library
libsndfile1	1.0.28-4ubuntu0.18.04.2	Library for reading/writing audio files
libsocket6-perl	0.27-1build2	Perl extensions for IPv6
libsodium23	1.0.16-2	Network communication, cryptography and signaturing library
libsoup-gnome2.4-1	2.62.1-1ubuntu0.4	HTTP library implementation in C -- GNOME support library
libsoup2.4-1	2.62.1-1ubuntu0.4	HTTP library implementation in C -- Shared library
libspeex1	1.2~rc1.2-1ubuntu2.1	The Speex codec runtime library
libspeexdsp1	1.2~rc1.2-1ubuntu2.1	The Speex extended runtime library
libsqlite3-0	3.22.0-1ubuntu0.4	SQLite 3 shared library
libss2	1.44.1-1ubuntu1.3	command-line interface parsing library
libssl1.0.0	1.0.2n-1ubuntu5.10	Secure Sockets Layer toolkit - shared libraries
libssl1.1	1.1.1-1ubuntu2.1~18.04.6	Secure Sockets Layer toolkit - shared libraries

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libstartup-notification0	0.12-5	library for program launch feedback (shared library)
libstdc++6	8.4.0-1ubuntu1~18.04	GNU Standard C++ Library v3
libstemmer0d	0+svn585-1build1	Snowball stemming algorithms for use in Information Retrieval
libsub-name-perl	0.21-1build1	module for assigning a new name to referenced sub
libsystemd0	237-3ubuntu10.42	systemd utility library
libtag1v5	1.11.1+dfsg.1-0.2build2	audio meta-data library
libtag1v5-vanilla	1.11.1+dfsg.1-0.2build2	audio meta-data library - vanilla flavour
libtalloc2	2.1.10-2ubuntu1	hierarchical pool based memory allocator
libtasn1-6	4.13-2	Manage ASN.1 structures (runtime)
libtdb1	1.3.15-2	Trivial Database - shared library
libteamdctl0	1.26-1	library for communication with `teamd` process
libtevent0	0.9.34-1	talloc-based event loop library - shared library
libtext-charwidth-perl	0.04-7.1	get display widths of characters on the terminal
libtext-iconv-perl	1.7-5build6	converts between character sets in Perl
libtext-wrapi18n-perl	0.06-7.1	internationalized substitute of Text::Wrap
libthai-data	0.1.27-2	Data files for Thai language support library
libthai0	0.1.27-2	Thai language support library
libtheora0	1.1.1+dfsg.1-14	Theora Video Compression Codec

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libthunarx-2-0	1.6.15-0ubuntu1.18.04.1	extension library for thunar
libtiff5	4.0.9-5ubuntu0.7	Tag Image File Format (TIFF) library
libtimedate-perl	2.3000-2	collection of modules to manipulate date/time information
libtimezonemap-data	0.4.5	GTK+3 timezone map widget - data files
libtimezonemap1	0.4.5	GTK+3 timezone map widget
libtinfo5	6.1-1ubuntu1.18.04	shared low-level terminfo library for terminal handling
libtotem-plparser-common	3.26.0-1ubuntu2	Totem Playlist Parser library - common files
libtotem-plparser18	3.26.0-1ubuntu2	Totem Playlist Parser library - runtime files
libtry-tiny-perl	0.30-1	module providing minimalistic try/catch
libtumbler-1-0	0.2.1-0ubuntu1	library for tumbler, a D-Bus thumbnailing service
libtwolame0	0.3.13-3	MPEG Audio Layer 2 encoding library
libudev1	237-3ubuntu10.42	libudev shared library
libudisks2-0	2.7.6-3ubuntu0.2	GObject based library to access udisks2
libunistring2	0.9.9-0ubuntu2	Unicode string library for C
libunity-control-center1	15.04.0+18.04.20180216-0ubuntu1	utilities to configure the GNOME desktop
libunity-settings-daemon1	15.04.1+18.04.20180413-0ubuntu1.2	Helper library for accessing settings
libupower-glib3	0.99.7-2ubuntu0.18.04.1	abstraction for power management - shared library
liburi-perl	1.73-1	module to manipulate and access URI strings

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
liburl-dispatcher1	0.1+17.04.20170328-0ubuntu4	library for sending requests to the url dispatcher
libusb-1.0-0	2:1.0.21-2	userspace USB programming library
libusbmuxd4	1.1.0~git20171206.c724e70f-0.1	USB multiplexor daemon for iPhone and iPod Touch devices - library
libutempter0	1.1.6-3	privileged helper for utmp/wtmp updates (runtime)
libuuid1	2.31.1-0.4ubuntu3.6	Universally Unique ID library
libv4l-0	1.14.2-1	Collection of video4linux support libraries
libv4lconvert0	1.14.2-1	Video4linux frame format conversion library
libvisual-0.4-0	0.4.0-11	audio visualization framework
libvolume-key1	0.3.9-4	Library for manipulating storage encryption keys and passphrases
libvorbis0a	1.3.5-4.2	decoder library for Vorbis General Audio Compression Codec
libvorbisenc2	1.3.5-4.2	encoder library for Vorbis General Audio Compression Codec
libvorbisfile3	1.3.5-4.2	high-level API for Vorbis General Audio Compression Codec
libvpx5	1.7.0-3ubuntu0.18.04.1	VP8 and VP9 video codec (shared library)
libvte-2.91-0	0.52.2-1ubuntu1~18.04.2	Terminal emulator widget for GTK+ 3.0 - runtime files
libvte-2.91-common	0.52.2-1ubuntu1~18.04.2	Terminal emulator widget for GTK+ 3.0 - common files
libwacom-bin	0.29-1	Wacom model feature query library -- binaries

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libwacom-common	0.29-1	Wacom model feature query library (common files)
libwacom2	0.29-1	Wacom model feature query library
libwavpack1	5.1.0-2ubuntu1.5	audio codec (lossy and lossless) - library
libwayland-client0	1.16.0-1ubuntu1.1~18.04.4	wayland compositor infrastructure - client library
libwayland-cursor0	1.16.0-1ubuntu1.1~18.04.4	wayland compositor infrastructure - cursor library
libwayland-egl1	1.16.0-1ubuntu1.1~18.04.4	wayland compositor infrastructure - EGL library
libwayland-server0	1.16.0-1ubuntu1.1~18.04.4	wayland compositor infrastructure - server library
libwbclient0	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Samba winbind client library
libwebkit2gtk-4.0-37	2.32.4-0ubuntu0.18.04.1	Web content engine library for GTK+
libwebp6	0.6.1-2ubuntu0.18.04.1	Lossy compression of digital photographic images.
libwebpdemux2	0.6.1-2ubuntu0.18.04.1	Lossy compression of digital photographic images.
libwebrtc-audio-processing1	0.3-1	AudioProcessing module from the WebRTC project.
libwhoopsie-preferences0	0.19	Ubuntu error tracker submission settings - shared library
libwhoopsie0	0.2.62ubuntu0.6	Ubuntu error tracker submission - shared library
libwind0-heimdal	7.5.0+dfsg-1	Heimdal Kerberos - stringprep implementation
libwnck-3-0	3.24.1-2	Window Navigator Construction Kit - runtime files
libwnck-3-common	3.24.1-2	Window Navigator Construction Kit - common files
libwnck-common	1:2.30.7-5.1ubuntu1	Window Navigator Construction Kit - common files

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libwnck22	1:2.30.7-5.1ubuntu1	Window Navigator Construction Kit - runtime files
libwoff1	1.0.2-1build0.1	library for converting fonts to WOFF 2.0
libwrap0	7.6.q-27	Wietse Venema's TCP wrappers library
libwww-perl	6.31-1ubuntu0.1	simple and consistent interface to the world-wide web
libwww-robotrules-perl	6.01-1	database of robots.txt-derived permissions
libx11-6	2:1.6.4-3ubuntu0.2	X11 client-side library
libx11-data	2:1.6.4-3ubuntu0.2	X11 client-side library
libx11-xcb1	2:1.6.4-3ubuntu0.4	Xlib/XCB interface library
libxapian30	1.4.5-1ubuntu0.1	Search engine library
libxatracker2	20.0.8-0ubuntu1~18.04.1	X acceleration library -- runtime
libxau6	1:1.0.8-1ubuntu1	X11 authorisation library
libxaw7	2:1.0.13-1	X11 Athena Widget library
libxcb-dri2-0	1.13-2~ubuntu18.04	X C Binding, dri2 extension
libxcb-dri3-0	1.13-2~ubuntu18.04	X C Binding, dri3 extension
libxcb-glx0	1.13-2~ubuntu18.04	X C Binding, glx extension
libxcb-present0	1.13-2~ubuntu18.04	X C Binding, present extension
libxcb-render0	1.13-2~ubuntu18.04	X C Binding, render extension
libxcb-shape0	1.13-2~ubuntu18.04	X C Binding, shape extension

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libxcb-shm0	1.13-2~ubuntu18.04	X C Binding, shm extension
libxcb-sync1	1.13-2~ubuntu18.04	X C Binding, sync extension
libxcb-util1	0.4.0-0ubuntu3	utility libraries for X C Binding -- atom, aux and event
libxcb-xfixes0	1.13-2~ubuntu18.04	X C Binding, xfixes extension
libxcb1	1.13-2~ubuntu18.04	X C Binding
libxcomposite1	1:0.4.4-2	X11 Composite extension library
libxcursor1	1:1.1.15-1	X cursor management library
libxdamage1	1:1.1.4-3	X11 damaged region extension library
libxdmcp6	1:1.1.2-3	X11 Display Manager Control Protocol library
libxext6	2:1.3.3-1	X11 miscellaneous extension library
libxfce4panel-2.0-4	4.12.2-1ubuntu1	Xfce4 panel libraries (GTK3 variant)
libxfce4ui-1-0	4.13.4-1ubuntu1	widget library for Xfce - Gtk+2 variant
libxfce4ui-2-0	4.13.4-1ubuntu1	widget library for Xfce - Gtk+3 variant
libxfce4ui-common	4.13.4-1ubuntu1	common files for libxfce4ui
libxfce4ui-utils	4.13.4-1ubuntu1	Utility files for libxfce4ui
libxfce4util-bin	4.12.1-3	tools for libxfce4util
libxfce4util-common	4.12.1-3	common files for libxfce4util
libxfce4util7	4.12.1-3	Utility functions library for Xfce4

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libxfconf-0-2	4.12.1-1	Client library for Xfce4 configure interface
libxfixes3	1:5.0.3-1	X11 miscellaneous 'fixes' extension library
libxfont2	1:2.0.3-1	X11 font rasterisation library
libxft2	2.3.2-1	FreeType-based font drawing library for X
libxi6	2:1.7.9-1	X11 Input extension library
libxinerama1	2:1.1.3-1	X11 Xinerama extension library
libxkbcommon0	0.8.2-1~ubuntu18.04.1	library interface to the XKB compiler - shared library
libxkbfile1	1:1.0.9-2	X11 keyboard file manipulation library
libxklavier16	5.4-3	X Keyboard Extension high-level API
libxml2	2.9.4+dfsg1-6.1ubuntu1.3	GNOME XML library
libxmu6	2:1.1.2-2	X11 miscellaneous utility library
libxmuu1	2:1.1.2-2	X11 miscellaneous micro-utility library
libxpm4	1:3.5.12-1	X11 pixmap library
libxrandr2	2:1.5.1-1	X11 RandR extension library
libxrender1	1:0.9.10-1	X Rendering Extension client library
libxres1	2:1.2.0-2	X11 Resource extension library
libxshmfence1	1.3-1	X shared memory fences - shared library
libxslt1.1	1.1.29-5ubuntu0.2	XSLT 1.0 processing library - runtime library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
libxss1	1:1.2.2-1	X11 Screen Saver extension library
libxt6	1:1.1.5-1	X11 toolkit intrinsics library
libxtables12	1.6.1-2ubuntu2	netfilter xtables library
libxtst6	2:1.2.3-1	X11 Testing -- Record extension library
libxv1	2:1.0.11-1	X11 Video extension library
libxvmc1	2:1.0.10-1	X11 Video extension library
libxxf86dga1	2:1.1.4-1	X11 Direct Graphics Access extension library
libxxf86vm1	1:1.1.4-1	X11 XFree86 video mode extension library
libyaml-0-2	0.1.7-2ubuntu3	Fast YAML 1.1 parser and emitter library
libyelp0	3.26.0-1ubuntu2	Library for the GNOME help browser
libzeitgeist-2.0-0	1.0-0.1ubuntu1	library to access Zeitgeist - shared library
libzstd1	1.3.3+dfsg-2ubuntu1.1	fast lossless compression algorithm
lightdm	1.26.0-0ubuntu1	Display Manager
lightdm-gtk-greeter	2.0.5-0ubuntu2	simple display manager (GTK+ greeter)
linux-base	4.5ubuntu1.2	Linux image base package
linux-firmware	1.173.19	Firmware for Linux kernel drivers
linux-generic	4.15.0.112.100	Complete Generic Linux kernel and headers
linux-headers-4.15.0-112	4.15.0-112.113	Header files related to Linux kernel version 4.15.0

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
linux-headers-4.15.0-112-generic	4.15.0-112.113	Linux kernel headers for version 4.15.0 on 64 bit x86 SMP
linux-headers-generic	4.15.0.112.100	Generic Linux kernel headers
linux-image-4.15.0-112-generic	4.15.0-112.113	Signed kernel image generic
linux-image-generic	4.15.0.112.100	Generic Linux kernel image
linux-modules-4.15.0-112-generic	4.15.0-112.113	Linux kernel extra modules for version 4.15.0 on 64 bit x86 SMP
linux-modules-extra-4.15.0-112-generic	4.15.0-112.113	Linux kernel extra modules for version 4.15.0 on 64 bit x86 SMP
linux-signed-generic	4.15.0.112.100	Complete Signed Generic Linux kernel and headers (dummy transitional package)
locales	2.27-3ubuntu1.2	GNU C Library: National Language (locale) data [support]
login	1:4.5-1ubuntu2	system login tools
logrotate	3.11.0-0.1ubuntu1	Log rotation utility
lsb-base	9.20170808ubuntu1	Linux Standard Base init script functionality
lsb-release	9.20170808ubuntu1	Linux Standard Base version reporting utility
lvm2	2.02.176-4.1ubuntu3.18.04.3	Linux Logical Volume Manager
man-db	2.8.3-2ubuntu0.1	on-line manual pager
mawk	1.3.3-17ubuntu3	a pattern scanning and text processing language

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
menu	2.1.47ubuntu2.1	generates programs menu for all menu-aware applications
menu-xdg	0.5	freedesktop.org menu compliant window manager scripts
mime-support	3.60ubuntu1	MIME files 'mime.types' & 'mailcap', and support programs
mobile-broadband-provider-info	20170903-1	database of mobile broadband service providers
modemmanager	1.10.0-1~ubuntu18.04.2	D-Bus service for managing modems
mokutil	0.3.0+1538710437.fb6250f-0ubuntu2~18.04.1	tools for manipulating machine owner keys
mount	2.31.1-0.4ubuntu3.6	tools for mounting and manipulating filesystems
mousetweaks	3.12.0-4	mouse accessibility enhancements for the GNOME desktop
multiarch-support	2.27-3ubuntu1.2	Transitional package to ensure multiarch compatibility
mysql-client-5.7	5.7.39-0ubuntu0.18.04.2	MySQL database client binaries
mysql-client-core-5.7	5.7.39-0ubuntu0.18.04.2	MySQL database core client binaries
mysql-common	5.8+1.0.4	MySQL database common files, e.g. /etc/mysql/my.cnf
mysql-server	5.7.39-0ubuntu0.18.04.2	MySQL database server (metapackage depending on the latest version)
mysql-server-5.7	5.7.39-0ubuntu0.18.04.2	MySQL database server binaries and system database setup
mysql-server-core-5.7	5.7.39-0ubuntu0.18.04.2	MySQL database server binaries
nautilus-data	1:3.26.4-0~ubuntu18.04.5	data files for nautilus
ncurses-base	6.1-1ubuntu1.18.04	basic terminal type definitions

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
ncurses-bin	6.1-1ubuntu1.18.04	terminal-related programs and man pages
netbase	5.4	Basic TCP/IP networking system
netcat-openbsd	1.187-1ubuntu0.1	TCP/IP swiss army knife
netplan.io	0.99-0ubuntu3~18.04.3	YAML network configuration abstraction for various backends
network-manager	1.10.6-2ubuntu1.4	network management framework (daemon and userspace tools)
network-manager-gnome	1.8.10-2ubuntu3	network management framework (GNOME frontend)
network-manager-pptp	1.2.6-1	network management framework (PPTP plugin core)
networkd-dispatcher	1.7-0ubuntu3.3	Dispatcher service for systemd-networkd connection status changes
notification-daemon	3.20.0-3	daemon for displaying passive pop-up notifications
nplan	0.99-0ubuntu3~18.04.3	YAML network configuration abstraction - transitional package
ntfs-3g	1:2017.3.23-2ubuntu0.18.04.2	read/write NTFS driver for FUSE
numix-gtk-theme	2.6.7-3	modern flat theme from the Numix project
openssl	1.1.1-1ubuntu2.1~18.04.6	Secure Sockets Layer toolkit - cryptographic utility
openssl1.0	1.0.2n-1ubuntu5.10	Secure Sockets Layer toolkit 1.0 - cryptographic utility
orage	4.12.1-4	Calendar for Xfce Desktop Environment
os-prober	1.74ubuntu1	utility to detect other OSes on a set of drives

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
p11-kit	0.23.9-2ubuntu0.1	p11-glue utilities
p11-kit-modules	0.23.9-2ubuntu0.1	p11-glue proxy and trust modules
packagekit	1.1.9-1ubuntu2.18.04.6	Provides a package management service
packagekit-tools	1.1.9-1ubuntu2.18.04.6	Provides PackageKit command-line tools
parted	3.2-20ubuntu0.2	disk partition manipulator
passwd	1:4.5-1ubuntu2	change and administer password and group data
pavucontrol	3.0-4	PulseAudio Volume Control
pciutils	1:3.5.2-1ubuntu1.1	Linux PCI Utilities
perl	5.26.1-6ubuntu0.3	Larry Wall's Practical Extraction and Report Language
perl-base	5.26.1-6ubuntu0.3	minimal Perl system
perl-modules-5.26	5.26.1-6ubuntu0.3	Core Perl modules
perl-openssl-defaults	3build1	version compatibility baseline for Perl OpenSSL packages
pinentry-curses	1.1.0-1	curses-based PIN or pass-phrase entry dialog for GnuPG
pinentry-gnome3	1.1.0-1	GNOME 3 PIN or pass-phrase entry dialog for GnuPG
plymouth	0.9.3-1ubuntu7.18.04.2	boot animation, logger and I/O multiplexer
plymouth-label	0.9.3-1ubuntu7.18.04.2	boot animation, logger and I/O multiplexer - label control
plymouth-theme-ubuntu-text	0.9.3-1ubuntu7.18.04.2	boot animation, logger and I/O multiplexer - ubuntu text theme
plymouth-theme-xubuntu-logo	18.04.5	graphical boot animation and logger - xubuntu-logo theme

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
plymouth-theme-xubuntu-text	18.04.5	graphical boot animation and logger - xubuntu-text theme
pmount	0.9.23-3build1	mount removable devices as normal user
policykit-1	0.105-20ubuntu0.18.04.6	framework for managing administrative policies and privileges
policykit-1-gnome	0.105-6ubuntu2	authentication agent for PolicyKit
poppler-data	0.4.8-2	encoding data for the poppler PDF rendering library
ppp	2.4.7-2+2ubuntu1.3	Point-to-Point Protocol (PPP) - daemon
pptp-linux	1.9.0+ds-2	Point-to-Point Tunneling Protocol (PPTP) Client
procps	2:3.3.12-3ubuntu1.2	/proc file system utilities
psmisc	23.1-1ubuntu0.1	utilities that use the proc file system
publicsuffix	20180223.1310-1	accurate, machine-readable list of domain name suffixes
pulseaudio	1:11.1-1ubuntu7.11	PulseAudio sound server
pulseaudio-module-bluetooth	1:11.1-1ubuntu7.11	Bluetooth module for PulseAudio sound server
pulseaudio-utils	1:11.1-1ubuntu7.11	Command line tools for the PulseAudio sound server
python	2.7.15~rc1-1	interactive high-level object-oriented language (default version)
python-apt-common	1.6.5ubuntu0.3	Python interface to libapt-pkg (locales)
python-audit	1:2.8.2-1ubuntu1.1	Python bindings for security auditing
python-crypto	2.6.1-8ubuntu2	cryptographic algorithms and protocols for Python

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
python-debconf	1.5.66ubuntu1	interact with debconf from Python 2
python-dnspython	1.15.0-1	DNS toolkit for Python
python-ldb	2:1.2.3-1ubuntu0.2	Python bindings for LDB
python-minimal	2.7.15~rc1-1	minimal subset of the Python language (default version)
python-samba	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Python bindings for Samba
python-talloc	2.1.10-2ubuntu1	hierarchical pool based memory allocator - Python bindings
python-tdb	1.3.15-2	Python bindings for TDB
python2.7	2.7.17-1~18.04ubuntu1.8	Interactive high-level object-oriented language (version 2.7)
python2.7-minimal	2.7.17-1~18.04ubuntu1.8	Minimal subset of the Python language (version 2.7)
python3	3.6.7-1~18.04	interactive high-level object-oriented language (default python3 version)
python3-apparmor	2.12-4ubuntu5.1	AppArmor Python3 utility library
python3-apport	2.20.9-0ubuntu7.16	Python 3 library for Apport crash report handling
python3-apt	1.6.5ubuntu0.3	Python 3 interface to libapt-pkg
python3-aptdaemon	1.1.1+bzr982-0ubuntu19.5	Python 3 module for the server and client of aptdaemon
python3-aptdaemon.gtk3widgets	1.1.1+bzr982-0ubuntu19.5	Python 3 GTK+ 3 widgets to run an aptdaemon client
python3-cairo	1.16.2-1	Python3 bindings for the Cairo vector graphics library

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
python3-certifi	2018.1.18-2	root certificates for validating SSL certs and verifying TLS hosts (python3)
python3-cffi-backend	1.11.5-1	Foreign Function Interface for Python 3 calling C code - runtime
python3-chardet	3.0.4-1	universal character encoding detector for Python3
python3-cups	1.9.73-2	Python3 bindings for CUPS
python3-cupshelpers	1.5.11-1ubuntu2	Python utility modules around the CUPS printing system
python3-dbus	1.2.6-1	simple interprocess messaging system (Python 3 interface)
python3-defer	1.0.6-2build1	Small framework for asynchronous programming (Python 3)
python3-gi	3.26.1-2ubuntu1	Python 3 bindings for GObject-introspection libraries
python3-httplib2	0.9.2+dfsg-1ubuntu0.2	comprehensive HTTP client library written for Python3
python3-idna	2.6-1	Python IDNA2008 (RFC 5891) handling (Python 3)
python3-libapparmor	2.12-4ubuntu5.1	AppArmor library Python3 bindings
python3-macaroonbakery	1.1.3-1	Higher-level macaroon operations for Python 3
python3-minimal	3.6.7-1~18.04	minimal subset of the Python language (default python3 version)
python3-nacl	1.1.2-1build1	Python bindings to libsodium (Python 3)
python3-netifaces	0.10.4-0.1build4	portable network interface information - Python 3.x
python3-pkg-resources	39.0.1-2	Package Discovery and Resource Access using pkg_resources

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
python3-problem-report	2.20.9-0ubuntu7.16	Python 3 library to handle problem reports
python3-protobuf	3.0.0-9.1ubuntu1	Python 3 bindings for protocol buffers
python3-pymacaroons	0.13.0-1	Macaroon library for Python 3
python3-requests	2.18.4-2ubuntu0.1	elegant and simple HTTP library for Python3, built for human beings
python3-requests-unixsocket	0.1.5-3	Use requests to talk HTTP via a UNIX domain socket - Python 3.x
python3-rfc3339	1.0-4	parser and generator of RFC 3339-compliant timestamps (Python 3)
python3-six	1.11.0-2	Python 2 and 3 compatibility library (Python 3 interface)
python3-tz	2018.3-2	Python3 version of the Olson timezone database
python3-urllib3	1.22-1ubuntu0.18.04.1	HTTP library with thread-safe connection pooling for Python3
python3-xdg	0.25-4ubuntu1.1	Python 3 library to access freedesktop.org standards
python3-yaml	3.12-1build2	YAML parser and emitter for Python3
python3.6	3.6.9-1~18.04ubuntu1.1	Interactive high-level object-oriented language (version 3.6)
python3.6-minimal	3.6.9-1~18.04ubuntu1.1	Minimal subset of the Python language (version 3.6)
readline-common	7.0-3	GNU readline and history libraries, common files
rsyslog	8.32.0-1ubuntu4	reliable system and kernel logging daemon
rtkit	0.11-6	Realtime Policy and Watchdog Daemon

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
samba	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	SMB/CIFS file, print, and login server for Unix
samba-common	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	common files used by both the Samba server and client
samba-common-bin	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Samba common files used by both the server and the client
samba-dsdb-modules	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Samba Directory Services Database
samba-libs	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Samba core libraries
samba-vfs-modules	2:4.7.6+dfsg~ubuntu-0ubuntu2.28	Samba Virtual FileSystem plugins
sane-utils	1.0.27-1~experimental3ubuntu2.4	API library for scanners -- utilities
sbsigntool	0.6-3.2ubuntu2	Tools to manipulate signatures on UEFI binaries and drivers
screen	4.6.2-1ubuntu1.1	terminal multiplexer with VT100/ANSI terminal emulation
secureboot-db	1.4~ubuntu0.18.04.1	Secure Boot updates for DB and DBX
sed	4.4-2	GNU stream editor for filtering/transforming text
sensible-utils	0.0.12	Utilities for sensible alternative selection
session-migration	0.3.3	Tool to migrate in user session settings
shared-mime-info	1.9-2	FreeDesktop.org shared MIME database and spec
shim	15+1533136590.3beb971-0ubuntu1	boot loader to chain-load signed boot loaders under Secure Boot
shim-signed	1.37~18.04.6+15+1533136590.3beb971-0ubuntu1	Secure Boot chain-loading bootloader (Microsoft-signed binary)
shimmer-themes	2.1.3	Gtk+ themes from Shimmer Project

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
sound-theme-freedesktop	0.8-2ubuntu1	freedesktop.org sound theme
ssl-cert	1.0.39	simple debconf wrapper for OpenSSL
sudo	1.8.21p2-3ubuntu1.4	Provide limited super user privileges to specific users
system-config-printer	1.5.11-1ubuntu2	graphical interface to configure the printing system
system-config-printer-common	1.5.11-1ubuntu2	backend and the translation files for system-config-printer
system-config-printer-udev	1.5.11-1ubuntu2	Utilities to detect and configure printers automatically
systemd	237-3ubuntu10.42	system and service manager
systemd-sysv	237-3ubuntu10.42	system and service manager - SysV links
sysvinit-utils	2.88dsf-59.10ubuntu1	System-V-like utilities
tango-icon-theme	0.8.90-7	Tango icon library
tar	1.29b-2ubuntu0.1	GNU version of the tar archiving utility
tasksel	3.34ubuntu11	tool for selecting tasks for installation on Debian systems
tasksel-data	3.34ubuntu11	official tasks used for installation of Debian systems
tdb-tools	1.3.15-2	Trivial Database - bundled binaries
thunar	1.6.15-0ubuntu1.18.04.1	File Manager for Xfce
thunar-data	1.6.15-0ubuntu1.18.04.1	Provides thunar documentation, icons and translations
thunar-volman	0.8.1-2	Thunar extension for volumes management
tumbler	0.2.1-0ubuntu1	D-Bus thumbnailing service

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
tumbler-common	0.2.1-0ubuntu1	D-Bus thumbnailing service (common files)
tzdata	2020a-0ubuntu0.18.04	time zone and daylight-saving time data
ubuntu-advantage-tools	17	management tools for Ubuntu Advantage
ubuntu-docs	18.04.4	Ubuntu Desktop Guide
ubuntu-keyring	2018.09.18.1~18.04.0	GnuPG keys of the Ubuntu archive
ubuntu-minimal	1.417.4	Minimal core of Ubuntu
ubuntu-mono	16.10+18.04.20181005-0ubuntu1	Ubuntu Mono Icon theme
ubuntu-system-service	0.3.1	DBus service to set various system-wide configurations
ubuntu-touch-sounds	15.08	sounds for the Ubuntu Touch image
ucf	3.0038	Update Configuration File(s): preserve user changes to config files
udev	237-3ubuntu10.42	/dev/ and hotplug management daemon
udisks2	2.7.6-3ubuntu0.2	D-Bus service to access and manipulate storage devices
ufw	0.36-0ubuntu0.18.04.2	program for managing a Netfilter firewall
unity-control-center	15.04.0+18.04.20180216-0ubuntu1	utilities to configure the GNOME desktop
unity-greeter	18.04.0+18.04.20180314.1-0ubuntu2	Unity Greeter
unity-settings-daemon	15.04.1+18.04.20180413-0ubuntu1.2	daemon handling the Unity session settings
unzip	6.0-21ubuntu1.1	De-archiver for .zip files

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
update-inetd	4.4400000000000004	inetd configuration file updater
upower	0.99.7-2ubuntu0.18.04.1	abstraction for power management
usb-modeswitch	2.5.2+repack0-2ubuntu1	mode switching tool for controlling "flip flop" USB devices
usb-modeswitch-data	20170806-2	mode switching data for usb-modeswitch
usbmuxd	1.1.0-2ubuntu0.1	USB multiplexor daemon for iPhone and iPod Touch devices
usbutils	1:007-4build1	Linux USB utilities
util-linux	2.31.1-0.4ubuntu3.6	miscellaneous system utilities
vim-common	2:8.0.1453-1ubuntu1.3	Vi IMproved - Common files
vim-tiny	2:8.0.1453-1ubuntu1.3	Vi IMproved - enhanced vi editor - compact version
wamerican	2017.08.24-1	American English dictionary words for /usr/share/dict
whiptail	0.52.20-1ubuntu1	Displays user-friendly dialog boxes from shell scripts
whoopsie-preferences	0.19	System preferences for error reporting
wireless-regdb	2018.05.09-0ubuntu1~18.04.1	wireless regulatory database
wpa_supplicant	2:2.6-15ubuntu2.8	client support for WPA and WPA2 (IEEE 802.11i)
x11-apps	7.7+6ubuntu1	X applications
x11-common	1:7.7+19ubuntu7.1	X Window System (X.Org) infrastructure
x11-session-utils	7.7+2build1	X session utilities
x11-utils	7.7+3build1	X11 utilities

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
x11-xkb-utils	7.7+3ubuntu0.18.04.1	X11 XKB utilities
x11-xserver-utils	7.7+7build1	X server utilities
xauth	1:1.0.10-1	X authentication utility
xbitmaps	1.1.1-2	Base X bitmaps
xdg-user-dirs	0.17-1ubuntu1	tool to manage well known user directories
xfce4	4.12.4	Meta-package for the Xfce Lightweight Desktop Environment
xfce4-appfinder	4.12.0-2ubuntu2	Application finder for the Xfce4 Desktop Environment
xfce4-notifyd	0.4.2-0ubuntu2	simple, visually-appealing notification daemon for Xfce
xfce4-panel	4.12.2-1ubuntu1	panel for Xfce4 desktop environment
xfce4-pulseaudio-plugin	0.4.1-0ubuntu1	Xfce4 panel plugin to control pulseaudio
xfce4-session	4.12.1-3ubuntu3	Xfce4 Session Manager
xfce4-settings	4.12.4-0ubuntu0.18.04.1	graphical application for managing Xfce settings
xfce4-terminal	0.8.7.4-0ubuntu0.18.04.1	Xfce terminal emulator
xfce4-whiskermenu-plugin	2.1.5-0ubuntu1	Alternate menu plugin for the Xfce desktop environment
xfconf	4.12.1-1	utilities for managing settings in Xfce
xfdesktop4	4.12.3-4ubuntu2	xfce desktop background, icons and root menu manager
xfdesktop4-data	4.12.3-4ubuntu2	xfce desktop background, icons and root menu (common files)
xfonts-base	1:1.0.4+nmu1	standard fonts for X

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
xfonts-encodings	1:1.0.4-2	Encodings for X.Org fonts
xfonts-scalable	1:1.0.3-1.1	scalable fonts for X
xfonts-utils	1:7.7+6	X Window System font utility programs
xfwm4	4.12.5-1ubuntu0.18.04.1	window manager of the Xfce project
xinit	1.3.4-3ubuntu3	X server initialisation tool
xinput	1.6.2-1build1	Runtime configuration and test of XInput devices
xkb-data	2.23.1-1ubuntu1.18.04.1	X Keyboard Extension (XKB) configuration data
xorg	1:7.7+19ubuntu7.1	X.Org X Window System
xorg-docs-core	1:1.7.1-1.1	Core documentation for the X.org X Window System
xscreensaver	5.36-1ubuntu1	Screensaver daemon and frontend for X11
xscreensaver-data	5.36-1ubuntu1	Screen saver modules for screensaver frontends
xserver-common	2:1.19.6-1ubuntu4.11	common files used by various X servers
xserver-xorg	1:7.7+19ubuntu7.1	X.Org X server
xserver-xorg-core	2:1.19.6-1ubuntu4.11	Xorg X server - core server
xserver-xorg-input-all	1:7.7+19ubuntu7.1	X.Org X server -- input driver metapackage
xserver-xorg-input-libinput	0.27.1-1	X.Org X server -- libinput input driver
xserver-xorg-input-wacom	1:0.36.1-0ubuntu1.1	X.Org X server -- Wacom input driver
xserver-xorg-legacy	2:1.19.6-1ubuntu4.11	setuid root Xorg server wrapper

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
xserver-xorg-video-all	1:7.7+19ubuntu7.1	X.Org X server -- output driver metapackage
xserver-xorg-video-amdgpu	18.0.1-1	X.Org X server -- AMDGPU display driver
xserver-xorg-video-ati	1:18.0.1-1	X.Org X server -- AMD/ATI display driver wrapper
xserver-xorg-video-fbdev	1:0.4.4-1build6	X.Org X server -- fbdev display driver
xserver-xorg-video-intel	2:2.99.917+git20171229-1	X.Org X server -- Intel i8xx, i9xx display driver
xserver-xorg-video-nouveau	1:1.0.15-2	X.Org X server -- Nouveau display driver
xserver-xorg-video-qxl	0.1.5-2build1	X.Org X server -- QXL display driver
xserver-xorg-video-radeon	1:18.0.1-1	X.Org X server -- AMD/ATI Radeon display driver
xserver-xorg-video-vesa	1:2.3.4-1build3	X.Org X server -- VESA display driver
xserver-xorg-video-vmware	1:13.2.1-1build1	X.Org X server -- VMware display driver
xubuntu-artwork	18.04.5	Xubuntu themes and artwork
xubuntu-default-settings	18.04.6	default settings for the Xubuntu desktop
xubuntu-icon-theme	18.04.5	Xubuntu icon theme
xubuntu-wallpapers	18.04.5	Xubuntu wallpapers
xxd	2:8.0.1453-1ubuntu1.3	tool to make (or reverse) a hex dump
xz-utils	5.2.2-1.3	XZ-format compression utilities
yelp	3.26.0-1ubuntu2	Help browser for GNOME
yelp-xsl	3.20.1-4	XSL stylesheets for the yelp help browser

Table 3-1. Installed third-party software. (continued)

Package	Version	Description
zeitgeist-core	1.0-0.1ubuntu1	event logging framework - engine
zip	3.0-11build1	Archiver for .zip files
zlib1g	1:1.2.11.dfsg-0ubuntu2	compression library - runtime

