# **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM 10-Q**

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT X **OF 1934** 

For the quarterly period ended December 31, 2020

or

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from

to

Commission file number: 001-34630

# ASPEN TECHNOLOGY, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

> 20 Crosby Drive Bedford

Massachusetts

01730 (Zip Code)

04-2739697

(I.R.S. Employer Identification No.)

(781) 221-6400

(Registrant's telephone number, including area code)

Securities	registered pursuant to Section 12(b) o	of the Act:				
Title of Each Class	Trading Symbol	Name of Each Exchange on Which Registered				
Common stock, \$0.10 par value per share	AZPN	NASDAQ Global Select Market				

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days: Yes ⊠ No 0

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes 🗵 No O

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

(Address of principal executive offices)

X

Non-accelerated filer 0

Accelerated filer 0 Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. O

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act): Yes 🗆 No 🗵

As of January 20, 2021, there were 67,836,428 shares of the registrant's common stock (par value \$0.10 per share) outstanding.

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aspenONE is one of our registered trademarks. All other trade names, trademarks and service marks appearing in this Form 10-Q are the property of their respective owners.

Our fiscal year ends on June 30<sup>th</sup>, and references to a specific fiscal year are to the twelve months ended June 30<sup>th</sup> of such year (for example, "fiscal 2021" refers to the year ending June 30, 2021).

# **PART I - FINANCIAL INFORMATION**

# Item 1. Financial Statements.

# Consolidated Financial Statements (unaudited)

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited)

	Three Months Ended December 31,				Six Mont Decem		
	 2020		2019		2020		2019
		(Dolla	ars in Thousands,	Excep	ot per Share Data)		
Revenue:							
License	\$ 180,170	\$	72,436	\$	,	\$	160,155
Maintenance	46,818		44,547		93,676		88,219
Services and other	 6,730		9,029		12,984		17,815
Total revenue	 233,718		126,012		348,689		266,189
Cost of revenue:							
License	2,238		2,009		4,374		3,669
Maintenance	4,128		4,584		8,892		9,561
Services and other	 7,949		8,933		16,515		17,514
Total cost of revenue	 14,315		15,526		29,781		30,744
Gross profit	 219,403		110,486		318,908		235,445
Operating expenses:							
Selling and marketing	26,575		28,500		51,747		57,692
Research and development	22,172		22,625		44,702		45,118
General and administrative	 21,203		16,422		38,836		36,306
Total operating expenses	69,950		67,547		135,285		139,116
Income from operations	 149,453		42,939		183,623		96,329
Interest income	9,304		8,428		17,973		16,404
Interest (expense)	(2,049)		(3,161)		(4,144)		(6,161)
Other (expense) income, net	(333)		(997)		(1,802)		135
Income before income taxes	 156,375		47,209		195,650		106,707
Provision for income taxes	27,223		7,408		33,787		13,392
Net income	\$ 129,152	\$	39,801	\$	161,863	\$	93,315
Net income per common share:	 						
Basic	\$ 1.91	\$	0.58	\$	2.39	\$	1.37
Diluted	\$ 1.89	\$	0.58	\$	2.37	\$	1.35
Weighted average shares outstanding:							
Basic	67,780		68,114		67,754		68,277
Diluted	68,400		68,844		68,360		69,090

See accompanying Notes to these unaudited consolidated financial statements.

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (Unaudited)

	Three Months Ended December 31,					led ,		
		2020		2019		2020		2019
				(Dollars in	Thous	ands)		
Net income	\$	129,152	\$	39,801	\$	161,863	\$	93,315
Other comprehensive income:								
Foreign currency translation adjustments		7,266		3,739		11,419		637
Total other comprehensive income		7,266		3,739		11,419		637
Comprehensive income	\$	136,418	\$	43,540	\$	173,282	\$	93,952

See accompanying Notes to these unaudited consolidated financial statements.

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS (Unaudited)

	I	December 31, 2020	June 30, 2020	
		(Dollars in The	ousands, Ex 2 Data)	
ASSETS				
Current assets:				
Cash and cash equivalents	\$	217,487	\$	287,796
Accounts receivable, net		46,348		56,301
Current contract assets, net		309,964		291,497
Prepaid expenses and other current assets		10,922		10,884
Prepaid income taxes		4,003		3,962
Total current assets		588,724		650,440
Property, equipment and leasehold improvements, net		5,748		5,963
Computer software development costs, net		1,438		928
Goodwill		157,797		137,055
Intangible assets, net		48,223		42,851
Non-current contract assets, net		419,258		318,976
Contract costs		28,295		28,614
Operating lease right-of-use assets		33,431		34,905
Deferred tax assets		2,863		1,735
Other non-current assets		2,112		1,839
Total assets	\$	1,287,889	\$	1,223,306
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities:				
Accounts payable	\$	2,876	\$	3,988
Accrued expenses and other current liabilities		40,230		43,556
Current operating lease liabilities		7,094		6,824
Income taxes payable		4,359		1,799
Current borrowings		16,000		135,163
Current deferred revenue		48,582		43,168
Total current liabilities		119,141		234,498
Non-current deferred revenue		12,524		13,913
Deferred tax liabilities		181,734		179,978
Non-current operating lease liabilities		30,890		33,088
Non-current borrowings, net		284,757		292,369
Other non-current liabilities		4,711		3,107
Commitments and contingencies (Note 17)				
Series D redeemable convertible preferred stock, \$0.10 par value— Authorized— 367,000 shares as of December 31, 2020 and June 30, 2020 Issued and outstanding— none as of December 31, 2020 and June 30, 2020		_		_
Stockholders' equity:				
Common stock, \$0.10 par value— Authorized—210,000,000 shares Issued— 104,099,832 shares at December 31, 2020 and 103,988,707 shares at June 30, 2020 Outstanding— 67,829,817 shares at December 31, 2020 and 67,718,692 shares at June 30, 2020		10,410		10,399
Additional paid-in capital		783,897		769,411
Retained earnings		1,620,193		1,458,330
Accumulated other comprehensive income (loss)		6,131		(5,288
Treasury stock, at cost—36,270,015 shares of common stock at December 31, 2020 and 36,270,015 shares at				
June 30, 2020		(1,766,499)		(1,766,499
Total stockholders' equity	*	654,132	*	466,353
Total liabilities and stockholders' equity	\$	1,287,889	\$	1,223,306



# See accompanying Notes to these unaudited consolidated financial statements.

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (Unaudited)

	Common	Stock	Additional		Accumulated Other	Treasury	y Stock	- Total				
	Number of Shares	\$0.10 Par Value	Paid-in Capital	Retained Earnings	Comprehensive Income (Loss)	Number of Shares	Cost	Stockholders' Equity				
		(Dollars in Thousands, Except Share Data)										
June 30, 2020	103,988,707	\$ 10,399	\$ 769,411	\$ 1,458,330	\$ (5,288)	36,270,015	\$ (1,766,499)	\$ 466,353				
Comprehensive income:												
Net income	—	—	—	32,711	—	—	—	32,711				
Other comprehensive income	—	—	—	—	4,153			4,153				
Issuance of shares of common stock	12,943	1	314	—	—	—		315				
Issuance of restricted stock units and net share settlement related to withholding taxes	26,265	3	(1,761)	_	_	_	_	(1,758)				
Stock-based compensation	_	—	6,268	_	—	—	_	6,268				
September 30, 2020	104,027,915	\$ 10,403	\$ 774,232	\$ 1,491,041	\$ (1,135)	36,270,015	\$ (1,766,499)	\$ 508,042				
Comprehensive income:												
Net income	_	_	_	129,152	_	_	_	129,152				
Other comprehensive income	_	_	_	_	7,266			7,266				
Issuance of shares of common stock	34,681	3	2,843	_	—	—		2,846				
Issuance of restricted stock units and net share settlement related to withholding taxes	37,236	4	(2,274)	_	_	_	_	(2,270)				
Stock-based compensation	_	_	9,096	_	—	_	_	9,096				
Balance December 31, 2020	104,099,832	\$ 10,410	\$ 783,897	\$ 1,620,193	\$ 6,131	36,270,015	\$ (1,766,499)	\$ 654,132				

	Common Stock				Additional Accumulated Oth			l-4-1 O4h	Treasur	ry St	ock	- Total			
	Number of Shares		0.10 Par Value		Paid-in Capital		Retained Earnings		Comprehensive Income (Loss)	Number of Shares		Cost	5	Stockholders' Equity	
	(Dollars in Thousands, Except Share Data)														
June 30, 2019	103,642,292	\$	10,365	\$	739,099	\$	1,228,659	\$	336	35,017,726	\$	(1,616,499)	\$	361,960	
Comprehensive income:															
Net income	_		_		_		53,514		—	_		_		53,514	
Other comprehensive (loss)	—		_		_		_		(3,102)					(3,102)	
Issuance of shares of common stock	17,783		2		933		_		_	—				935	
Issuance of restricted stock units and net share settlement related to withholding taxes	57,451		5		(3,399)		_		_	_		_		(3,394)	
Repurchase of common stock			_		_				_	382,279		(50,000)		(50,000)	
Stock-based compensation	_		_		9,275				_	_		_		9,275	
September 30, 2019	103,717,526	\$	10,372	\$	745,908	\$	1,282,173	\$	(2,766)	35,400,005	\$	(1,666,499)	\$	369,188	
Comprehensive income:						_					_				
Net income	_		_		_		39,801		_	_		_		39,801	
Other comprehensive income	_		_				_		3,739					3,739	
Issuance of shares of common stock	31,857		3		1,938		_		_	_				1,941	
Issuance of restricted stock units and net share settlement related to withholding taxes	39,155		4		(2,623)		_		_	_		_		(2,619)	
Repurchase of common stock	_		—		_		_		_	418,019		(50,000)		(50,000)	
Stock-based compensation	_		_		7,559		_			_				7,559	
Balance December 31, 2019	103,788,538	\$	10,379	\$	752,782	\$	1,321,974	\$	973	35,818,024	\$	(1,716,499)	\$	369,609	

See accompanying Notes to these unaudited consolidated financial statements.

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

		Six Months Ended December 31,		
		2020		2019
		(Dollars in	Thousands)	
Cash flows from operating activities:				
Net income	\$	161,863	\$	93,315
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization		4,857		4,479
Reduction in the carrying amount of right-of-use assets		4,779		3,251
Net foreign currency losses (gains)		2,054		(162
Stock-based compensation		15,364		16,834
Deferred income taxes		212		(1,400
Provision for bad debts		4,736		1,264
Other non-cash operating activities		407		215
Changes in assets and liabilities:				
Accounts receivable		8,372		(4,539
Contract assets, net		(123,373)		(29,887
Contract costs		321		(830
Lease liabilities		(5,235)		(3,396
Prepaid expenses, prepaid income taxes, and other assets		42		(1,768
Accounts payable, accrued expenses, income taxes payable and other liabilities		(7,063)		(23,105
Deferred revenue		6,954		7,93
Net cash provided by operating activities		74,290	<u></u>	62,202
Cash flows from investing activities:				
Purchases of property, equipment and leasehold improvements		(522)		(968
Payments for business acquisitions, net of cash acquired		(15,943)		(74,219
Payments for equity method investments		(166)		_
Payments for capitalized computer software development costs		(895)		(70
Net cash used in investing activities		(17,526)		(75,257
Cash flows from financing activities:				
Issuance of shares of common stock		3,114		2,714
Repurchases of common stock		_		(100,864
Payments of tax withholding obligations related to restricted stock		(4,107)		(5,851
Proceeds from revolving credit facility, net of repayments		(119,182)		129,163
Repayments of amounts borrowed under term loan		(8,000)		
Payments of debt issuance costs		_		(3,454
Net cash provided by (used in) financing activities		(128,175)		21,708
Effect of exchange rate changes on cash and cash equivalents		1,104		(98
Increase (decrease) in cash, cash equivalents, and restricted cash	-	(70,307)		8,560
Cash and cash equivalents, beginning of period		287,796		71,920
Cash, cash equivalents, and restricted cash, end of period	\$	217,489	\$	80,480
Supplemental disclosure of cash flow information:		,	-	
**	¢	20.000	¢	10 74
Income taxes paid, net	\$	30,668	Э	19,748
Interest paid		4,217		5,192
Supplemental disclosure of non-cash activities:				
Change in purchases of property, equipment and leasehold improvements included in accounts payable and	\$	57	\$	(96
accrued expenses	Э	<u>/ה</u>		190

Lease liabilities arising from obtaining right-of-use assets		1,291		4,824	
	D	ecember 31, 2020	D	ecember 31, 2019	
Reconciliation to amounts within the unaudited consolidated balance sheets:		(Dollars in Thousands)			
Cash and cash equivalents	\$	217,487	\$	80,486	
Restricted cash included in other non-current assets		2		_	
Cash, cash equivalents, and restricted cash, end of period	\$	217,489	\$	80,486	

See accompanying Notes to these unaudited consolidated financial statements.

# ASPEN TECHNOLOGY, INC. AND SUBSIDIARIES NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

### 1. Interim Unaudited Consolidated Financial Statements

The accompanying interim unaudited consolidated financial statements of Aspen Technology, Inc. and its subsidiaries have been prepared on the same basis as our annual consolidated financial statements. We have omitted certain information and footnote disclosures normally included in our annual consolidated financial statements. Such interim unaudited consolidated financial statements have been prepared in conformity with U.S. Generally Accepted Accounting Principles ("GAAP"), as defined in the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 270, *Interim Reporting*, for interim financial information and with the instructions to Rule 10-01 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. It is suggested that these unaudited consolidated financial statements be read in conjunction with the audited consolidated financial statements for the year ended June 30, 2020, which are contained in our Annual Report on Form 10-K, as previously filed with the U.S. Securities and Exchange Commission ("SEC"). In the opinion of management, all adjustments, consisting of normal and recurring adjustments, considered necessary for a fair presentation of the financial position, results of operations, and cash flows at the dates and for the periods presented have been included and all intercompany accounts and transactions have been eliminated in consolidation. The results of operations for the three and six months ended December 31, 2020 are not necessarily indicative of the results to be expected for the subsequent quarter or for the full fiscal year.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

Unless the context requires otherwise, references to we, our and us refer to Aspen Technology, Inc. and its subsidiaries.

### 2. Significant Accounting Policies

### (a) Principles of Consolidation

The accompanying consolidated financial statements include the accounts of Aspen Technology, Inc. and our wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

### (b) Significant Accounting Policies

Our significant accounting policies are described in Note 2 to the consolidated financial statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2020. We adopted Accounting Standards Update ("ASU") No. 2016-13, *Financial Instruments - Credit Losses ("Topic 326")* effective July 1, 2020. Refer to Note 2(h), "New Accounting Pronouncements Adopted in Fiscal 2021," for further information regarding the adoption of Topic 326. There were no other material changes to our significant accounting policies during the three and six months ended December 31, 2020.

# (c) Loss Contingencies

We accrue estimated liabilities for loss contingencies arising from claims, assessments, litigation and other sources when it is probable that a liability has been incurred and the amount of the claim, assessment or damages can be reasonably estimated. We believe that we have sufficient accruals to cover any obligations resulting from claims, assessments or litigation that have met these criteria.

### (d) Foreign Currency Transactions

Foreign currency exchange gains and losses generated from the settlement and remeasurement of transactions denominated in currencies other than the functional currency of our subsidiaries are recognized in our results of operations as incurred as a component of other (expense), net. Net foreign currency exchange (losses) gains were \$(0.6) million and \$(1.0) million during the three months ended December 31, 2020 and 2019, respectively, and \$(2.1) million and \$0.2 million during the six months ended December 31, 2020 and 2019, respectively.

# (e) Research and Development Expense

We charge research and development expenditures to expense as the costs are incurred. Research and development expenses consist primarily of personnel expenses related to the creation of new products, enhancements and engineering changes to existing products and costs of acquired technology prior to establishing technological feasibility. There was less than \$0.1 million of capitalized direct labor costs associated with our development of software for sale during the three months ended December 31, 2020 and 2019, respectively, and \$0.7 million and less than \$0.1 million during the six months ended December 31, 2020 and 2019, respectively.

# (f) Restricted Cash

As of December 31, 2020, our restricted cash balance of less than \$0.1 million related to funds subject to contractual restrictions. We did not have a restricted cash balance as of June 30, 2020.

# (g) Equity Method Investments

During fiscal 2020, we entered into a limited partnership investment fund agreement. The primary objective of this partnership is investing in equity and equity-related securities (including convertible debt) of venture growth- stage businesses. We account for the investment in accordance with Topic 323, *Investments - Equity Method and Joint Ventures*. Our total commitment under this partnership is 5.0 million CAD (\$3.9 million). Under the conditions of the equity method investment, unfavorable future changes in market conditions could lead to a potential loss up to the full value of our 5.0 million CAD (\$3.9 million) commitment. As of December 31, 2020, the fair value of this investment is 0.7 million CAD (\$0.5 million), representing our payment towards the total commitment, and is recorded in non-current assets in our consolidated balance sheet.

### (h) New Accounting Pronouncements Adopted in Fiscal 2021

In June 2016, the FASB issued Topic 326. The amendment changes the impairment model for most financial assets and certain other instruments. Under Topic 326, entities are required to use a model that will result in the earlier recognition of allowances for losses for trade and other receivables, contract assets, held-to-maturity debt securities, loans, and other instruments. Topic 326 is effective for annual periods, including interim periods within those annual periods, beginning after December 15, 2019. Early adoption is permitted. We adopted Topic 326 effective July 1, 2020 using the effective date method with a modified retrospective transition approach. The adoption of Topic 326 did not have a material impact on our balance sheet, operating results or cash flows, and there was no impact on our debt covenants.

In March 2020, the FASB issued ASU 2020-04, *Facilitation of the Effects of Reference Rate Reform on Financial Reporting ("Topic 848")*. ASU 2020-04 provides practical expedients and exceptions for applying U.S. GAAP to contracts, hedging relationships, and other transactions affected by reference rate reform if certain criteria are met. The expedients and exceptions provided by ASU 2020-04 apply only to contracts, hedging relationships, and other transactions that reference the London Interbank Offered Rate ("LIBOR") or another reference rate expected to be discontinued as a result of reference rate reform. These amendments are not applicable to contract modifications made and hedging relationships entered into or evaluated after December 31, 2022. ASU No. 2020-04 is effective as of March 12, 2020 through December 31, 2022, and may be applied to contract modifications and hedging relationships from the beginning of an interim period that includes or is subsequent to March 12, 2020. We adopted ASU 2020-04 effective July 1, 2020. The adoption of ASU No. 2020-04 did not have a material impact on our operating results or cash flows, and there was no impact on our debt covenants.

### (i) Recently Issued Accounting Pronouncements

In December 2019, the FASB issued ASU No. 2019-12, *Income Taxes ("Topic 740") - Simplifying the Accounting for Income Taxes*. ASU 2019-12 is intended to simplify accounting for income taxes. It removes certain exceptions to the general principles in Topic 740 and amends existing guidance to improve consistent application. ASU 2019-12 is effective for annual periods, including interim periods within those annual periods, beginning after December 15, 2020. Early adoption is permitted. We are currently evaluating the impact of ASU 2019-12 on our consolidated financial statements.

# 3. Revenue from Contracts with Customers

In accordance with ASU No. 2014-09, *Revenue from Contracts with Customers* ("Topic 606"), we account for a customer contract when both parties have approved the contract and are committed to perform their respective obligations, each party's rights can be identified, payment terms can be identified, the contract has commercial substance, and it is probable that we will collect substantially all of the consideration to which we are entitled. Revenue is recognized when, or as, performance obligations are satisfied by transferring control of a promised product or service to a customer.

### Nature of Products and Services

We generate revenue from the following sources: (1) License revenue; (2) Maintenance revenue; and (3) Services and other revenue. We sell our software products to end users primarily under fixed-term licenses. We license our software products primarily through a subscription offering which we refer to as our aspenONE licensing model, which includes software maintenance and support, known as our Premier Plus SMS offering, for the entire term. Our aspenONE products are organized into three suites: 1) engineering; 2) manufacturing and supply chain; and 3) asset performance management. The aspenONE licensing model provides customers with access to all of the products within the aspenONE suite(s) they license. We refer to these arrangements as token arrangements. Tokens are fixed units of measure. The amount of software usage is limited by the number of tokens purchased by the customer.

We also license our software through point product term arrangements, which include our Premier Plus SMS offering for the entire term.

We determine revenue recognition through the following steps:

- Identification of the contract, or contracts, with a customer;
- Identification of the performance obligations in the contract;
- Determination of the transaction price;
- Allocation of the transaction price to the performance obligations in the contract; and
- Recognition of revenue when, or as, we satisfy a performance obligation.

Term-based Arrangements: Term-based arrangements consist of on-premise term licenses as well as maintenance.

### License

License revenue consists primarily of product and related revenue from our aspenONE licensing model and point product arrangements.

When a customer elects to license our products under our aspenONE licensing model, the customer receives, for the term of the arrangement, the right to all software products in the licensed aspenONE software suite. When a customer elects to license point products, the customer receives, for the term of the arrangement, the right to license specified products in the licensed aspenONE software suite. Revenue from initial product licenses is recognized upfront upon delivery.

### Maintenance

When a customer elects to license our products under our aspenONE licensing model, our Premier Plus SMS offering is included for the entire term of the arrangement and the customer receives, for the term of the arrangement, the right to any updates that may be introduced into the licensed aspenONE software suite. When a customer elects to license point products, our Premier Plus SMS offering is included for the entire term of the arrangement and the customer receives, for the term of the arrangement, the right to any updates that may be introduced related to the specified products licensed. Maintenance represents a stand-ready obligation and, due to our obligation to provide unspecified future software updates on a when-and-if available basis as well as telephone support services, we are required to recognize revenue ratably over the term of the arrangement.

### Services and Other Revenue

### **Professional Services Revenue**

Professional services are provided to customers on a time-and-materials ("T&M") or fixed-price basis. The obligation to provide professional services is generally satisfied over time, with the customer simultaneously receiving and consuming the benefits as we satisfy our performance obligation. For professional services, revenue is recognized by measuring progress toward the completion of our obligations. We recognize professional services fees for our T&M contracts based upon hours worked and contractually agreed-upon hourly rates. Revenue from fixed-price engagements is recognized using the proportional performance method based on the ratio of costs incurred to the total estimated project costs. The use of the proportional performance method is dependent upon our ability to reliably estimate the costs to complete a project. We use historical experience as a basis for future estimates to complete current projects. Additionally, we believe that costs are the best available measure of performance. Out-of-pocket expenses which are reimbursed by customers are recorded as revenue.

### **Training Revenue**

We provide training services to our customers, including on-site, Internet-based, public and customized training. The obligation to provide training services is generally satisfied over time, with the customer simultaneously receiving and consuming the benefits as we satisfy our performance obligation. Revenue is recognized in the period in which the services are performed.

### **Contracts with Multiple Performance Obligations**

Our contracts generally contain more than one of the products and services listed above, each of which is separately accounted for as a distinct performance obligation.

<u>Allocation of consideration</u>: We allocate total contract consideration to each distinct performance obligation in an arrangement on a relative standalone selling price basis. The standalone selling price reflects the price we would charge for a specific product or service if it was sold separately in similar circumstances and to similar customers.

If the arrangement contains professional services and other products or services, we allocate to the professional service obligation a portion of the total contract consideration based on the standalone selling price of professional services that is observed from consistently priced standalone sales.

The standalone selling price for term arrangements, which always include maintenance for the full term of the arrangement, is the price for the combined license and maintenance bundle. The amount assigned to the license and maintenance bundle is separated into license and maintenance amounts using the respective standalone selling prices represented by the value relationship between the software license and maintenance.

When two or more contracts are entered into at or near the same time with the same customer, we evaluate the facts and circumstances associated with the negotiation of those contracts. Where the contracts are negotiated as a package, we will account for them as a single arrangement and allocate the consideration for the combined contracts among the performance obligations accordingly.

<u>Standalone selling price</u>: When available, we use directly observable transactions to determine the standalone selling prices for performance obligations. Generally, directly observable data is not available for term licenses and maintenance. When term licenses are sold together with maintenance in a bundled arrangement, we estimate a standalone selling price for these distinct performance obligations using relevant information, including our overall pricing objectives and strategies and historical pricing data, and taking into consideration market conditions and other factors.

### Other policies and judgments

Payment terms and conditions vary by contract type, although terms generally include a requirement of payment annually over the term of the license arrangement. Therefore, we generally receive payment from a customer after the performance obligation related to the license has been satisfied, and therefore, our contracts generally contain a significant financing component. The significant financing component is calculated utilizing an interest rate that derives the net present value of the performance obligations delivered on an upfront basis based on the allocation of consideration. We have instituted a customer portfolio approach in assigning interest rates. The rates are determined at contract inception and are based on the credit characteristics of the customers within each portfolio.

# **Contract modifications**

We sometimes enter into agreements to modify previously executed contracts, which constitute contract modifications. We assess each of these contract modifications to determine (i) if the additional products and services are distinct from the products and services in the original arrangement; and (ii) if the amount of consideration expected for the added products and services reflects the stand-alone selling price of those products and services, as adjusted for contract-specific circumstances. A contract modification meeting both criteria is accounted for as a separate contract. A contract modification not meeting both criteria is considered a change to the original contract and is accounted for on either (i) a prospective basis as a termination of the existing contract and the creation of a new contract; or (ii) a cumulative catch-up basis. Generally, our contract modifications meet both criteria and are accounted for as a separate contract, as adjusted for contract-specific circumstances.

### Disaggregation of Revenue

We disaggregate our revenue by region, type of performance obligation, timing of revenue recognition, and segment as follows:

	Three Months Ended December 31,					Six Mo Decem	onths Ended ber 31,			
		2020		2019		2020		2019		
				(Dollars i	n Thousa	nds)				
Revenue by region:										
North America	\$	111,192	\$	49,389	\$	158,431	\$	111,814		
Europe		77,474		32,468		111,190		70,746		
Other (1)		45,052		44,155		79,068		83,629		
	\$	233,718	\$	126,012	\$	348,689	\$	266,189		
							- <u></u>			
Revenue by type of rformance obligation:										
Term licenses	\$	180,170	\$	72,436	\$	242,029	\$	160,155		
Maintenance		46,818		44,547		93,676		88,219		
Professional services and other		6,730		9,029		12,984		17,815		
	\$	233,718	\$	126,012	\$	348,689	\$	266,189		
							- <u></u>			
Revenue by segment:										
Subscription and software	\$	226,988	\$	116,983	\$	335,705	\$	248,374		
Services and other		6,730		9,029		12,984		17,815		
	\$	233,718	\$	126,012	\$	348,689	\$	266,189		

(1) Other consists primarily of Asia Pacific, Latin America and the Middle East.

### **Contract Assets and Deferred Revenue**

The difference in the opening and closing balances of our contract assets and deferred revenue primarily results from the timing difference between our performance and the customer's payment. We fulfill our obligations under a contract with a customer by transferring products and services in exchange for consideration from the customer. We recognize a contract asset when we transfer products or services to a customer and the right to consideration is conditional on something other than the passage of time. Accounts receivable are recorded when the customer has been billed or the right to consideration is unconditional. We recognize deferred revenue when we have received consideration or an amount of consideration is due from the customer and we have a future obligation to transfer products or services.

Payment terms and conditions vary by contract type. Terms generally include a requirement of payment annually over the term of the license arrangement. During the majority of each customer contract term, the amount invoiced is generally less than the amount of revenue recognized to date, primarily because we transfer control of the performance obligation related to the software license at the inception of the contract term, and the allocation of contract consideration to the license performance

obligation is a significant portion of the total contract consideration. Therefore, our contracts often result in the recording of a contract asset throughout the majority of the contract term. We record a contract asset when revenue recognized on a contract exceeds the billings.

The contract assets are subject to credit risk and reviewed in accordance with Topic 326. We monitor the credit quality of customer contract asset balances on an individual basis, at each reporting date, through credit characteristics, geographic location, and the industry in which they operate. We recognize an impairment on contract assets if, subsequent to contract inception, it becomes probable payment is not collectible. An allowance for expected credit loss reflects losses expected over the remaining term of the contract asset and is determined based upon historical losses, customer-specific factors, and current economic conditions.

The following table presents the change in the reserve for contract assets during the six months ended December 31, 2020:

June 30, 2020			Provision	Write-Off	fs, Recoveries, and Billings	December 31, 2020
			(Dollar	in Thousands	5)	
\$	(2,947)	\$	(4,796	) \$	33	\$ (7,710)

Our total contract assets, net and deferred revenue were as follows as of December 31, 2020 and June 30, 2020:

	D	ecember 31, 2020		June 30, 2020			
		(Dollars in Thousands)					
Contract assets, net	\$	729,222	\$	610,473			
Deferred revenue		(61,106)		(57,081)			
	\$	668,116	\$	553,392			

Contract assets and deferred revenue are presented net at the contract level for each reporting period.

The change in deferred revenue in the six months ended December 31, 2020 was primarily due to an increase in new billings in advance of revenue recognition, partially offset by \$25.2 million of revenue recognized that was included in deferred revenue as of June 30, 2020.

### **Contract Costs**

We pay commissions for new product sales as well as for renewals of existing contracts. Commissions paid to obtain renewal contracts are not commensurate with the commissions paid for new product sales and therefore, a portion of the commissions paid for new contracts relate to future renewals.

We account for new product sales commissions using a portfolio approach and allocate the cost of commissions in proportion to the allocation of transaction price of license and maintenance performance obligations, including assumed renewals. Commissions allocated to the license and license renewal components are expensed at the time the license revenue is recognized. Commissions allocated to maintenance are capitalized and amortized on a straight-line basis over a period of four years to eight years for new contracts, reflecting our estimate of the expected period that we will benefit from those commissions.

Amortization of capitalized contract costs is included in selling and marketing expenses in our statement of operations.

#### **Transaction Price Allocated to Remaining Performance Obligations**

The following table includes the aggregate amount of the transaction price allocated as of December 31, 2020 to the performance obligations that are unsatisfied (or partially unsatisfied) at the end of the reporting period:



	Year Ended June 30,										
	 2021		2022		2023		2024		2025	Tl	nereafter
	 (Dollars in Thousands)										
License	\$ 60,919	\$	21,414	\$	10,583	\$	4,019	\$	4,653	\$	700
Maintenance	90,190		150,787		115,109		84,035		53,523		23,311
Services and other	43,008		3,998		859		390		226		197

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### 4. Leases

We have operating leases primarily for corporate offices, and other operating leases for data centers and certain equipment. We determine whether an arrangement is or contains a lease based on facts and circumstances present at the inception of the arrangement. We recognize lease expense on a straight-line basis over the lease term. Our leases have remaining lease terms of less than one year to approximately ten years, some of which include options to extend the leases for up to five years, and some of which include the option to terminate the leases upon advanced notice of 30 days or more. If we are reasonably certain we will exercise an option to extend or terminate the lease, the time period covered by the extension or termination option is included in the lease term.

Operating lease liabilities and their corresponding right-of-use assets are recorded based on the present value of lease payments over the expected lease term. The interest rate implicit in the lease contracts is typically not readily determinable. As such, we utilize the appropriate incremental borrowing rate, which is the rate incurred to borrow on a collateralized basis over a similar term at an amount equal to the lease payments in a similar economic environment. Certain adjustments to the right-of-use asset may be required for items such as incentives received. We have lease agreements with lease and non-lease components, which are accounted for separately.

Operating lease costs are recognized on a straight-line basis over the term of the lease. The components of lease expenses for the three and six months ended December 31, 2020 and 2019 were as follows:

	Three Months Ended December 31,			Six Months Ended December 31,				
	2020 2019		2020		2019			
	(Dollars in Thousands)				(Dollars in Thousands)			
Operating lease costs (1)	\$	2,474	\$	2,293	\$	4,897	\$	4,476
Total lease costs	\$	2,474	\$	2,293	\$	4,897	\$	4,476

(1) Operating lease costs include rent and fixed fees

The following table represents the weighted-average remaining lease term and discount rate information related to our operating leases as of December 31, 2020 and June 30, 2020:

	December 31, 2020	June 30, 2020		
Weighted average remaining lease term	5.2 years	5.7 years		
Weighted average discount rate	4.3 %	4.4 %		

The following table represents the maturities of our operating lease liabilities as of December 31, 2020 and June 30, 2020:

	 December 31, 2020			June 30, 2020
		(Dollars i	n Thousands	)
Year Ending June 30,				
2021	\$	3,752	\$	8,477
2022		9,570		8,784
2023		8,823		8,167
2024		7,661		7,516
2025		5,567		5,481
Thereafter		7,720		7,370
Total lease payments		43,093		45,795
Less: imputed interest		(5,109)		(5,883)
	 \$	37,984	\$	39,912

# 5. Fair Value

We determine fair value by utilizing a fair value hierarchy that ranks the quality and reliability of the information used in its determination. Fair values determined using "Level 1 inputs" utilize unadjusted quoted prices in active markets for identical assets or liabilities that we have the ability to access. Fair values determined using "Level 2 inputs" utilize data points that are observable, such as quoted prices, interest rates and yield curves for similar assets and liabilities.

Cash equivalents are reported at fair value utilizing quoted market prices in identical markets, or "Level 1 Inputs." Our cash equivalents consist of short-term money market instruments.

Equity method investments are reported at fair value calculated in accordance with the market approach, utilizing market consensus pricing models with quoted prices that are directly or indirectly observable, or "Level 2 Inputs."

The following table summarizes financial assets and liabilities measured and recorded at fair value on a recurring basis in the accompanying consolidated balance sheets as of December 31, 2020 and June 30, 2020, segregated by the level of the valuation inputs within the fair value hierarchy utilized to measure fair value:

		Fair Value Measurements at Reporting Date Using,					
	Identica	a Active Markets for Assets 1 Inputs)	Significant Other Observable Inputs (Level 2 Inputs)				
		(Dollars in T	'housands)				
December 31, 2020:							
Cash equivalents	\$	1,020	\$	—			
Equity method investments		—		548			
June 30, 2020:							
Cash equivalents	\$	1,020	\$	—			
Equity method investments		—		342			

Financial instruments not measured or recorded at fair value in the accompanying consolidated financial statements consist of accounts receivable, accounts payable and accrued liabilities. The estimated fair value of these financial instruments approximates their carrying value. The estimated fair value of the borrowings under the Amended and Restated Credit Agreement (described below in Note 12, "Credit Agreement") approximates its carrying value due to the floating interest rate.

### 6. Accounts Receivable, Net

Our accounts receivable, net of the related allowance for doubtful accounts, were as follows as of December 31, 2020 and June 30, 2020:

	1	December 31, 2020		June 30, 2020
		(Dollars in Thousands)		
Accounts receivable, gross	\$	55,596	\$	62,925
Allowance for doubtful accounts		(9,248)		(6,624)
Accounts receivable, net	\$	46,348	\$	56,301

As of December 31, 2020 and June 30, 2020, we had no customer receivable balances that individually represented 10% or more of our net accounts receivable.

# 7. Property and Equipment

Property, equipment and leasehold improvements consisted of the following as of December 31, 2020 and June 30, 2020:

	December 31, 2020			June 30, 2020
		(Dollars in	Thousands	5)
Property, equipment and leasehold improvements, at cost:				
Computer equipment	\$	7,424	\$	6,958
Purchased software		22,544		22,534
Furniture & fixtures		7,106		6,971
Leasehold improvements		12,672		12,424
Property, equipment and leasehold improvements, at cost		49,746		48,887
Accumulated depreciation		(43,998)		(42,924)
Property, equipment and leasehold improvements, net	\$	5,748	\$	5,963

### 8. Acquisitions

# **Camo Analytics AS**

On November 17, 2020, we completed the acquisition of substantially all the outstanding shares of Camo Analytics AS ("Camo"), a leading provider of industrial analytics, for a total cash consideration of \$12.8 million. The purchase price consisted of \$10.1 million of cash paid at closing, \$0.3 million to be paid for the remaining undelivered shares as of the closing date, and \$2.4 million to be held back as security for certain representations, warranties, and obligations of the sellers. The holdback amounts are recorded in accrued expenses and other current liabilities in our consolidated balance sheet.

An allocation of the purchase price is as follows:

	A	mount
	(Dollars	in Thousands)
Tangible assets acquired, net	\$	637
Identifiable intangible assets:		
Technology-related		2,555
Customer relationships		1,916
Goodwill		7,668
Total assets acquired, net	\$	12,776

The amounts above represent the preliminary fair value estimates as of December 31, 2020 and are subject to subsequent adjustment as we obtain additional information during the measurement period and finalize our fair value estimates. The goodwill reflects the value of the assembled workforce and the company-specific synergies we expect to realize by selling Camo products and services to our existing customers and is reported under the subscription and software reporting unit. The results of operations of Camo have been included prospectively in our results of operations since the date of acquisition.

# **OptiPlant**, Inc.

On December 8, 2020, we completed the acquisition of all the outstanding shares of OptiPlant, Inc. ("OptiPlant"), a leading provider of AI Driven 3D Conceptual Design and Engineering Automation software, for a total cash consideration of \$8.3 million. The purchase price consisted of \$6.8 million of cash paid at closing, \$0.3 million to be held back for working capital adjustments, and \$1.2 million to be held back as security for certain representations, warranties, and obligations of the sellers. The holdback amounts are recorded in accrued expenses and other current liabilities and other non-current liabilities, respectively, in our consolidated balance sheet.

An allocation of the purchase price is as follows:



	A	mount
	(Dollars i	n Thousands)
Tangible assets acquired, net	\$	45
Identifiable intangible assets:		
Technology-related		1,485
Customer relationships		990
Goodwill		6,275
Deferred tax liabilities		(545)
Total assets acquired, net	\$	8,250

The amounts above represent the preliminary fair value estimates as of December 31, 2020 and are subject to subsequent adjustment as we obtain additional information during the measurement period and finalize our fair value estimates. The goodwill reflects the value of the assembled workforce and the company-specific synergies we expect to realize by selling OptiPlant products and services to our existing customers and is reported under the subscription and software reporting unit. The results of operations of OptiPlant have been included prospectively in our results of operations since the date of acquisition.

### 9. Intangible Assets

We include in our amortizable intangible assets those intangible assets acquired in our business and asset acquisitions. We amortize acquired intangible assets with finite lives over their estimated economic lives, generally using the straight-line method. Each period, we evaluate the estimated remaining useful lives of acquired intangible assets to determine whether events or changes in circumstances warrant a revision to the remaining period of amortization. Acquired intangibles are removed from the accounts when fully amortized and no longer in use.

Intangible assets consisted of the following as of December 31, 2020 and June 30, 2020:

	Gross Carrying Amount		Accumulated Amortization Effect of Currency Translation			Net Carrying Amount		
				(Dollars in '	Thousands)			
December 31, 2020:								
Technology	\$	55,309	\$	(16,182)	\$	636	\$	39,763
Customer relationships		12,054		(3,847)		253		8,460
Non-compete agreements		553		(553)				_
Total	\$	67,916	\$	(20,582)	\$	889	\$	48,223
June 30, 2020:								<u> </u>
Technology	\$	51,269	\$	(13,245)	\$	(842)	\$	37,182
Customer relationships		9,148		(3,171)		(308)		5,669
Non-compete agreements		553		(553)		—		
Total	\$	60,970	\$	(16,969)	\$	(1,150)	\$	42,851

Total amortization expense related to intangible assets is included in cost of license revenue and operating expenses and amounted to approximately \$1.9 million and \$1.7 million during the three months ended December 31, 2020 and 2019, respectively, and \$3.6 million and \$2.9 million during the six months ended December 31, 2020 and 2019, respectively.

Future amortization expense as of December 31, 2020 is expected to be as follows:

<u>Year Ended June 30,</u>	Amortization Expense
	 (Dollars in Thousands)
2021	\$ 4,057
2022	8,173
2023	8,154
2024	7,608
2025	7,521
Thereafter	12,710
Total	\$ 48,223

### 10. Goodwill

The changes in the carrying amount of goodwill for our subscription and software reporting unit during the three months ended December 31, 2020 were as follows:

	Gross Carrying Amount		Accumulated Impairment Losses		of Currency slation	t Carrying nount
	(Dollars in Thousands)					
June 30, 2020:	\$ 207,850	\$	(65,569)	\$	(5,226)	\$ 137,055
Goodwill from acquisitions	13,453					13,453
Foreign currency translation	—				7,289	7,289
December 31, 2020:	\$ 221,303	\$	(65,569)	\$	2,063	\$ 157,797

We test goodwill for impairment annually (or more often if impairment indicators arise), at the reporting unit level. We first assess qualitative factors to determine whether the existence of events or circumstances indicates that it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If we determine based on this assessment that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, we perform the goodwill impairment test. The first step requires us to determine the fair value of the reporting unit and compare it to the carrying amount, including goodwill, of such reporting unit. If the fair value exceeds the carrying amount, no impairment loss is recognized. However, if the carrying amount of the reporting unit exceeds its fair value, the goodwill of the unit is impaired.

Fair value of a reporting unit is determined using a combined weighted average of a market-based approach (utilizing fair value multiples of comparable publicly traded companies) and an income-based approach (utilizing discounted projected cash flows). In applying the income-based approach, we would be required to make assumptions about the amount and timing of future expected cash flows, growth rates and appropriate discount rates. The amount and timing of future cash flows would be based on our most recent long-term financial projections. The discount rate we would utilize would be determined using estimates of market participant risk-adjusted weighted-average costs of capital and reflect the risks associated with achieving future cash flows.

We have elected December 31st as the annual impairment assessment date. We performed our annual impairment test for the subscription and software reporting unit as of December 31, 2020 and, based upon the results of our qualitative assessment, determined that it was not likely that its fair value was less than its carrying amount. As such, we did not recognize impairment losses as a result of our analysis. If an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying value, goodwill will be evaluated for impairment between annual tests.

# 11. Accrued Expenses and Other Liabilities

Accrued expenses and other current liabilities consisted of the following as of December 31, 2020 and June 30, 2020:

	December 31, 2020		June 30, 2020
	 (Dollars in	sands)	
Compensation-related	\$ 19,963	\$	27,591
Deferred acquisition payments	4,610		1,479
Uncertain tax positions	331		318
Royalties and external commissions	3,569		3,359
Professional fees	3,651		2,115
Other	8,106		8,694
Total accrued expenses and other current liabilities	\$ 40,230	\$	43,556

Other non-current liabilities consisted of the following as of December 31, 2020 and June 30, 2020:

	De	cember 31, 2020		June 30, 2020		
		(Dollars in Thousands)				
Uncertain tax positions	\$	2,426	\$	2,027		
Deferred acquisition payments		1,200				
Asset retirement obligations		954		920		
Other		131		160		
Total other non-current liabilities	\$	4,711	\$	3,107		

### 12. Credit Agreement

In December 2019, we entered into an Amended and Restated Credit Agreement with JPMorgan Chase Bank, N.A., as administrative agent, joint lead arranger and joint bookrunner, Silicon Valley Bank, as joint lead arranger, joint bookrunner and syndication agent, and the lenders and co-documentation agents named therein (the "Amended and Restated Credit Agreement"). The Amended and Restated Credit Agreement, which amends and restates the Credit Agreement we entered into as of February 26, 2016, provides for a \$200.0 million secured revolving credit facility and a \$320.0 million secured term loan facility.

Principal outstanding under the Amended and Restated Credit Agreement bears interest at a rate per annum equal to, at our option, either: (1) the sum of (a) the highest of (i) the rate of interest last quoted by The Wall Street Journal in the United States as the prime rate in effect, (ii) the NYFRB Rate (as defined in the Amended and Restated Credit Agreement) plus 0.5%, and (iii) the LIBO rate (as defined in the Amended and Restated Credit Agreement) multiplied by the Statutory Reserve Rate (as defined in the Amended and Restated Credit Agreement) plus 1.0%, plus (b) a margin initially of 0.5% for the first full fiscal quarter ending after the date of the Amended and Restated Credit Agreement and thereafter based on our leverage ratio (as defined in the Amended and Restated Credit Agreement); or (2) the sum of (a) the LIBO rate multiplied by the Statutory Reserve Rate, plus (b) a margin initially of 1.5% for the first full fiscal quarter ending after the date of the Amended and Restated Credit Agreement and thereafter based on our leverage ratio. The interest rates as of December 31, 2020 were 1.65% on \$304.0 million in outstanding borrowings on our term loan facility.

All borrowings under the Amended and Restated Credit Agreement are secured by liens on substantially all of our assets and the assets of our subsidiary AspenTech Canada Holdings, LLC, which has guaranteed our obligations under the Amended and Restated Credit Agreement. Additional significant subsidiaries (as determined in the Amended and Restated Credit Agreement) may be required to guarantee our obligations and to grant liens on their assets in favor of the lenders.

As of December 31, 2020, our current borrowings of \$16.0 million consist of the term loan facility. Our non-current borrowings of \$284.8 million consist of \$288.0 million of our term loan facility, net of \$3.2 million in debt issuance costs. We had current borrowings of \$135.2 million and non-current borrowings of \$292.4 million as of June 30, 2020.



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The indebtedness under the revolving credit facility matures on December 23, 2024. The following table summarizes the maturities of the term loan facility:

<u>Year Ended June 30,</u>		Amount			
	(D	ollars in Thousands)			
2021	\$	8,000			
2022		20,000			
2023		28,000			
2024		36,000			
2025		212,000			
Total	\$	304,000			

The Amended and Restated Credit Agreement contains affirmative and negative covenants customary for facilities of this type, including restrictions on incurrence of additional debt, liens, fundamental changes, asset sales, restricted payments and transactions with affiliates. There are also financial covenants regarding maintenance as of the end of each fiscal quarter, commencing with the quarter ending December 31, 2020, of a maximum leverage ratio of 3.50 to 1.00 and a minimum interest coverage ratio of 2.50 to 1.00. As of December 31, 2020, we were in compliance with these covenants.

#### 13. Stock-Based Compensation

#### Stock Compensation Accounting

The weighted average estimated fair value of option awards granted was \$37.30 and \$27.85 during the three months ended December 31, 2020 and 2019, respectively, and \$38.11 and \$33.11 during the six months ended December 31, 2020 and 2019, respectively.

We utilized the Black-Scholes option valuation model with the following weighted average assumptions:

	Six Months En December 31	
	2020	2019
Risk-free interest rate	0.3 %	1.5 %
Expected dividend yield	0.0 %	0.0 %
Expected life (in years)	4.7	4.5
Expected volatility factor	34.2 %	26.8 %

The stock-based compensation expense under all equity plans and its classification in the unaudited consolidated statements of operations for the three and six months ended December 31, 2020 and 2019 are as follows:

	Three Months Ended December 31,			Six Month Decemb				
	 2020		2019		2020		2019	
			(Dollars in Thousan	ds)				
Recorded as expenses:								
Cost of maintenance	\$ 122	\$	362	\$	438	\$	761	
Cost of services and other	351		484		801		1,027	
Selling and marketing	1,612		1,209		2,856		2,756	
Research and development	2,449		2,009		4,171		4,111	
General and administrative	4,562		3,495		7,098		8,179	
Total stock-based compensation	\$ 9,096	\$	7,559	\$	15,364	\$	16,834	



A summary of stock option and restricted stock unit ("RSU") activity under all equity plans for the six months ended December 31, 2020 is as follows:

	Stock Options								<b>Restricted Stock Units</b>			
	Shares		Weighted Average Exercise Price	Weighted Average Remaining Contractual Term (Years)		Aggregate Intrinsic Value (in 000's)	Shares		Weighted Average Grant Date Fair Value			
Outstanding at June 30, 2020	1,410,139	\$	76.19	6.67	\$	49,705	352,921	\$	112.45			
Granted	293,812		129.86				223,804		130.01			
Settled (RSUs)	_						(94,654)		102.89			
Exercised (Stock options)	(12,943)		24.38									
Cancelled / Forfeited	(24,802)		113.15				(18,977)		111.43			
Outstanding at December 31, 2020	1,666,206	\$	85.58	6.78	\$	74,124	463,094	\$	122.95			
Vested and exercisable at December 31, 2020	1,056,105	\$	64.71	5.60	\$	69,483						
Vested and expected to vest as of December 31, 2020	1,589,595	\$	84.40	6.71	\$	73,699	419,395	\$	122.94			

As of December 31, 2020, common stock reserved for future issuance under equity compensation plans was 5.5 million shares.

#### Employee Stock Purchase Plan

On July 26, 2018, our Board of Directors approved the Aspen Technology, Inc. 2018 Employee Stock Purchase Plan (the "ESPP"), which provides for the issuance of up to 250,000 shares of common stock to participating employees. The ESPP is intended to be a qualified employee stock purchase plan under Section 423 of the Internal Revenue Code of 1986 (the "IRC"). The ESPP was approved at our Annual Meeting of Stockholders on December 7, 2018. The ESPP currently provides for a purchase price equal to 85% of the lower of (a) the fair market value of the common stock on the first trading day of each ESPP offering period and (b) the fair market value of the common stock on the last day of the offering period. Our initial offering period was January 1, 2019 through June 30, 2019. During the six months ended December 31, 2020, our offering period was July 1, 2020 through December 31, 2020.

We recorded stock-based compensation expense associated with the ESPP of \$0.1 million and \$0.1 million during the three months ended December 31, 2020 and 2019, respectively, and \$0.3 million and \$0.2 million during the six months ended December 31, 2020 and 2019, respectively. As of December 31, 2020, there were 208,687 shares of common stock available for issuance under the ESPP.

### 14. Stockholders' Equity

#### Stock Repurchases

On January 22, 2015, our Board of Directors approved a share repurchase program (the "Share Repurchase Program") for up to \$450.0 million of our common stock. The Share Repurchase Program was announced on January 28, 2015, and expires at the end of each fiscal year unless extended. On April 26, 2016, June 8, 2017, April 18, 2018, December 6, 2018, and April 17, 2019, the Board of Directors approved a \$400.0 million, \$200.0 million, \$200.0 million, \$100.0 million, and \$200.0 million increase in the Share Repurchase Program, respectively. On July 22, 2020, our Board of Directors approved a new share repurchase program (the "New Share Repurchase Program") for up to \$200.0 million of our common stock, and terminated the Share Repurchase Program. The timing and amount of any shares repurchased are based on market conditions and other factors. All shares of our common stock repurchased have been recorded as treasury stock under the cost method.

No shares of our common stock were repurchased in the open market under the New Share Repurchase Program during the three and six months ended December 31, 2020. 418,019 and 800,298 shares of our common stock were repurchased in the open market for \$50.0 million and \$100.0 million under the Share Repurchase Program during the three and six months ended



December 31, 2019, respectively. As of December 31, 2020, the total remaining value under the New Share Repurchase Program was approximately \$200.0 million.

# Accumulated Other Comprehensive Income (Loss)

As of December 31, 2020 and June 30, 2020, accumulated other comprehensive income (loss) was comprised of foreign currency translation adjustments of \$6.2 million and \$(5.3) million, respectively.

### 15. Net Income Per Share

Basic income per share is determined by dividing net income by the weighted average common shares outstanding during the period. Diluted income per share is determined by dividing net income by diluted weighted average shares outstanding during the period. Diluted weighted average shares reflect the dilutive effect, if any, of potential common shares. To the extent their effect is dilutive, employee equity awards and other commitments to be settled in common stock are included in the calculation of diluted net income per share based on the treasury stock method.

The calculations of basic and diluted net income per share and basic and dilutive weighted average shares outstanding for the three and six months ended December 31, 2020 and 2019 are as follows:

	Three Months Ended December 31,				Six Months Ended December 31,			
	2	020		2019		2020		2019
		(Do	llars a	nd Shares in Thous	ands, E	Except per Share E	)ata)	
Net income	\$	129,152	\$	39,801	\$	161,863	\$	93,315
Weighted average shares outstanding		67,780		68,114		67,754		68,277
Dilutive impact from:								
Employee equity awards		620		730		606		813
Dilutive weighted average shares outstanding		68,400		68,844		68,360		69,090
Income per share								
Basic	\$	1.91	\$	0.58	\$	2.39	\$	1.37
Dilutive	\$	1.89	\$	0.58	\$	2.37	\$	1.35

For the three and six months ended December 31, 2020 and 2019, certain employee equity awards were anti-dilutive based on the treasury stock method. The following employee equity awards were excluded from the calculation of dilutive weighted average shares outstanding because their effect would be anti-dilutive as of December 31, 2020 and 2019:

	Three Mont Decemb		Six Month Decemb		
	2020	2019	2020	2019	
	(Shares in Thousands)				
Employee equity awards	943	698	1,063	691	

Included in the table above are options to purchase 556,432 and 560,979 shares of our common stock during the three and six months ended December 31, 2020, which were not included in the computation of dilutive weighted average shares outstanding, because their exercise prices ranged from \$121.67 per share to \$138.14 per share and were greater than the average market price of our common stock during the period then ended. These options were outstanding as of December 31, 2020 and expire at various dates through December 29, 2030.

## 16. Income Taxes

The effective tax rate for the periods presented is primarily the result of income earned in the U.S. taxed at U.S. federal and state statutory income tax rates, income earned in foreign tax jurisdictions taxed at the applicable rates, as well as the impact of permanent differences between book and tax income, primarily the Foreign Derived Intangible Income ("FDII") deduction. Assuming certain requirements are met, the FDII deduction is a benefit for U.S. companies that sell their products or services to customers outside the U.S.

Our effective tax rate was 17.4% and 15.7% during the three months ended December 31, 2020 and 2019, respectively, and 17.3% and 12.6% during the six months ended December 31, 2020 and 2019, respectively. Our effective tax rate was lower in the three and six months ended December 31, 2019 as a result of the tax contingency reversal due to settling an IRS audit.

We recognized an income tax expense of \$27.2 million and \$7.4 million during the three months ended December 31, 2020 and 2019, respectively, and \$33.8 million and \$13.4 million during the six months ended December 31, 2020 and 2019, respectively. Our income tax expense was driven primarily by pre-tax profitability in our domestic and foreign operations and the impact of permanent items. The permanent items are predominantly the FDII deduction, stock-based compensation expense and tax credits for research expenditures.

Deferred income taxes are recognized based on temporary differences between the financial statement and tax bases of assets and liabilities. Deferred tax assets and liabilities are measured using the statutory tax rates and laws expected to apply to taxable income in the years in which the temporary differences are expected to reverse. Valuation allowances are provided against net deferred tax assets if, based upon the available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income and the timing of the temporary differences becoming deductible. Management considers, among other available information, scheduled reversals of deferred tax liabilities, projected future taxable income, limitations of availability of net operating loss carryforwards, and other matters in making this assessment.

#### 17. Commitments and Contingencies

Standby letters of credit for \$2.1 million and \$3.5 million secured our performance on professional services contracts, certain facility leases and potential liabilities as of December 31, 2020 and June 30, 2020, respectively. The letters of credit expire at various dates through fiscal 2026.

### 18. Segment Information

Operating segments are defined as components of an enterprise that engage in business activities for which discrete financial information is available and regularly reviewed by the chief operating decision maker in deciding how to allocate resources and to assess performance. Our chief operating decision maker is our President and Chief Executive Officer.

We have two operating and reportable segments, which are consistent with our reporting units: i) subscription and software and ii) services and other. The subscription and software segment is engaged in the licensing of process optimization and asset performance management software solutions and associated support services, and includes our license and maintenance revenue. The services and other segment includes professional services and training, and includes our services and other revenue. We do not track assets or capital expenditures by operating segments. Consequently, it is not practical to present assets, capital expenditures, depreciation or amortization by operating segments.



The following table presents a summary of our reportable segments' profits:

	Subscrip	Subscription and Software		Services and Other Dollars in Thousands)	Total		
Three Months Ended December 31, 2020							
Segment revenue	\$	226,988	\$	6,730	\$	233,718	
Segment expenses (1)		(55,113)		(7,949)		(63,062)	
Segment profit	\$	171,875	\$	(1,219)	\$	170,656	
Three Months Ended December 31, 2019							
Segment revenue	\$	116,983	\$	9,029	\$	126,012	
Segment expenses (1)		(57,718)		(8,933)		(66,651)	
Segment profit (loss)	\$	59,265	\$	96	\$	59,361	
Six Months Ended December 31, 2020							
Segment revenue	\$	335,705	\$	12,984	\$	348,689	
Segment expenses (1)		(109,715)		(16,515)		(126,230)	
Segment profit	\$	225,990	\$	(3,531)	\$	222,459	
Six Months Ended December 31, 2019							
Segment revenue	\$	248,374	\$	17,815	\$	266,189	
Segment expenses (1)		(116,040)		(17,514)		(133,554)	
Segment profit (loss)	\$	132,334	\$	301	\$	132,635	

(1) Our reportable segments' operating expenses include expenses directly attributable to the segments. Segment expenses include selling and marketing and research and development expenses. Segment expenses do not include allocations of general and administrative expense; interest income; interest expense; and other (expense) income, net.

# **Reconciliation to Income before Income Taxes**

The following table presents a reconciliation of total segment profit to income before income taxes for the three and six months ended December 31, 2020 and 2019:

	Three Mon Decem			ths Ended ıber 31,		
	 2020 2019			2020		2019
		(Dollars i	ı Thous	sands)		
Total segment profit for reportable segments	\$ 170,656	\$ 59,361	\$	222,459	\$	132,635
General and administrative expense	(21,203)	(16,422)	)	(38,836)		(36,306)
Interest income	9,304	8,428		17,973		16,404
Interest (expense)	(2,049)	(3,161)	)	(4,144)		(6,161)
Other (expense) income, net	(333)	(997)	)	(1,802)		135
Income before income taxes	\$ 156,375	\$ 47,209	\$	195,650	\$	106,707



# Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

You should read the following discussion in conjunction with our unaudited consolidated financial statements and related notes thereto contained in this report. In addition to historical information, this discussion contains forward-looking statements that involve risks and uncertainties. You should read "Item 1A. Risk Factors" of Part II for a discussion of important factors that could cause our actual results to differ materially from our expectations.

Our fiscal year ends on June 30<sup>th</sup>, and references in this Quarterly Report to a specific fiscal year are to the twelve months ended June 30<sup>th</sup> of such year (for example, "fiscal 2021" refers to the year ending on June 30, 2021).

#### **Business Overview**

We are a global leader in asset optimization software that optimizes asset design, operations and maintenance in complex, industrial environments. We combine decades of process modeling and operations expertise with big data, artificial intelligence, and advanced analytics. Our purpose-built software improves the competitiveness and profitability of our customers by increasing throughput, energy efficiency, and production levels, reducing unplanned downtime, plant emissions, and safety risks, enhancing capital efficiency, and decreasing working capital requirements over the entire asset lifecycle to support operational excellence.

Our software incorporates our proprietary mathematical and empirical models of manufacturing and planning processes and reflects the deep domain expertise we have amassed from focusing on solutions for the process and other capital-intensive industries for over 35 years. We have developed our applications to design and optimize processes across three principal business areas: engineering, manufacturing and supply chain, and asset performance management. We are a recognized market and technology leader in providing process optimization and asset performance management software for each of these business areas.

We have established sustainable competitive advantages based on the following strengths:

- · Innovative products that can enhance our customers' profitability and productivity;
- Long-term customer relationships;
- Large installed base of users of our software; and
- Long-term license contracts.

We have approximately 2,400 customers globally. Our customers consist of companies engaged in the process and other capital-intensive industries such as energy, chemicals, engineering and construction, as well as pharmaceuticals, food and beverage, transportation, power, metals and mining, pulp and paper, and consumer packaged goods.

#### **Business Segments**

We have two operating and reportable segments, which are consistent with our reporting units: (i) subscription and software and (ii) services and other. The subscription and software segment is engaged in the licensing of process optimization and asset performance management software solutions and associated support services, and includes our license and maintenance revenue. The services and other segment includes professional services and training, and includes our services and other revenue.

### **Recent Events**

In December 2019, the novel SARS-CoV-2 virus and associated COVID-19 disease ("COVID-19") were reported in China, and in March 2020 the World Health Organization declared a pandemic. Since the beginning of March 2020, the sudden decrease in demand for oil due to the COVID-19 pandemic, compounded by the excess supply arising from producers' failure to agree on production cuts, resulted in a drop in oil prices. During the three and six months ended December 31, 2020, our business was negatively impacted by these factors. Specifically, we saw a slowdown in closing customer contracts, a slight increase in our customer attrition rate due to non-renewals and renewals at lower entitlement level and, to a lesser extent, a slowdown in customer payments. We are continuing to assess the impact of these items on global markets and the various industries of our customers. The extent of the impact on our operational and financial performance going forward will depend on developments such as the duration and spread of the pandemic and other factors affecting oil prices, the impact of these items on our customers and our sales cycles, as well as on our employees, all of which are uncertain and cannot be predicted. We are continuing to monitor the potential impacts related to the current disruption of COVID-19 and uncertainty in the global



markets on the various industries of our customers. These factors could potentially impact the signing of new agreements, as well as the recoverability of assets, including accounts receivable and contract costs.

### **Key Components of Operations**

### Revenue

We generate revenue primarily from the following sources:

*License Revenue.* We sell our software products to end users, primarily under fixed-term licenses, through a subscription offering which we refer to as our aspenONE licensing model. The aspenONE licensing model includes software maintenance and support, known as our Premier Plus SMS offering, for the entire term. Our aspenONE products are organized into three suites: 1) engineering; 2) manufacturing and supply chain; and 3) asset performance management. The aspenONE licensing model provides customers with access to all of the products within the aspenONE suite(s) they license. Customers can change or alternate the use of multiple products in a licensed suite through the use of exchangeable units of measurement, called tokens, licensed in quantities determined by the customer. This licensing system enables customers to use products as needed and to experiment with different products to best solve whatever critical business challenges they face. Customers can increase their usage of our software by purchasing additional tokens as business needs evolve.

We also license our software through point product arrangements with our Premier Plus SMS offering included for the contract term.

*Maintenance Revenue.* We provide customers technical support, access to software fixes and updates and the right to any new unspecified future software products and updates that may be introduced into the licensed aspenONE software suite. Our technical support services are provided from our customer support centers throughout the world, as well as via email and through our support website.

*Services and Other Revenue.* We provide training and professional services to our customers. Our professional services are focused on implementing our technology in order to improve customers' plant performance and gain better operational data. Customers who use our professional services typically engage us to provide those services over periods of up to 24 months. We charge customers for professional services on a time-and-materials or fixed-price basis. We provide training services to our customers, including on-site, Internet-based and customized training.

### Cost of Revenue

*Cost of License*. Our cost of license revenue consists of (i) royalties, (ii) amortization of capitalized software and intangibles, and (iii) distribution fees.

*Cost of Maintenance*. Our cost of maintenance revenue consists primarily of personnel-related costs of providing Premier Plus SMS bundled with our aspenONE licensing and point product arrangements.

*Cost of Services and Other.* Our cost of services and other revenue consists primarily of personnel-related and external consultant costs associated with providing customers professional services and training.

### **Operating Expenses**

*Selling and Marketing Expenses.* Selling expenses consist primarily of the personnel and travel expenses related to the effort expended to license our products and services to current and potential customers, as well as for overall management of customer relationships. Marketing expenses include expenses needed to promote our company and our products and to conduct market research to help us better understand our customers and their business needs.

*Research and Development Expenses.* Research and development expenses consist primarily of personnel expenses related to the creation of new software products, enhancements and engineering changes to existing products.

*General and Administrative Expenses.* General and administrative expenses include the costs of corporate and support functions, such as executive leadership and administration groups, finance, legal, human resources and corporate communications, and other costs, such as outside professional and consultant fees, amortization of intangibles, and provision for bad debts.

### **Other Income and Expenses**

*Interest Income.* Interest income is recorded for financing components under Accounting Standards Update ("ASU") No. 2014-09, *Revenue from Contracts with Customers* ("Topic 606"). When a contract includes a significant financing component, we generally receive the majority of the customer consideration after the recognition of a substantial portion of the

arrangement fee as license revenue. As a result, we decrease the amount of revenue recognized and increase interest income by a corresponding amount. Interest income also includes the accretion of interest on investments in short-term money market instruments.

Interest Expense. Interest expense is primarily related to our Amended and Restated Credit Agreement.

*Other (Expense) Income, Net.* Other (expense) income, net is comprised primarily of foreign currency exchange gains (losses) generated from the settlement and remeasurement of transactions denominated in currencies other than the functional currency of our operating units.

*Provision for Income Taxes.* Provision for income taxes is comprised of domestic and foreign taxes. We record interest and penalties related to income tax matters as a component of income tax expense. Our effective income tax rate may fluctuate between fiscal years and from quarter to quarter due to items arising from discrete events, such as tax benefits from the disposition of employee equity awards, settlements of tax audits and assessments and tax law changes. Our effective income tax rate is also impacted by, and may fluctuate in any given period because of, the composition of income in foreign jurisdictions where tax rates differ.

## **Key Business Metrics**

### Background

We utilize key business measures to track and assess the performance of our business. We have identified the following set of appropriate business metrics in the context of our evolving business:

- Annual spend
- Total contract value
- Bookings

We also use the following non-GAAP business metrics in addition to GAAP measures to track our business performance:

- Free cash flow
- Non-GAAP operating income

We make these measures available to investors and none of these metrics should be considered as an alternative to any measure of financial performance calculated in accordance with GAAP.

#### Annual Spend

Annual spend is an estimate of the annualized value of our portfolio of term license agreements, as of a specific date. Annual spend is calculated by summing the most recent annual invoice value of each of our active term license agreements. Annual spend also includes the annualized value of standalone SMS agreements purchased with certain legacy term license agreements, which have become an immaterial part of our business.

Comparing annual spend for different dates can provide insight into the growth and retention rates of our business, because annual spend represents the estimated annualized billings associated with our active term license agreements. Management utilizes the annual spend business metric to evaluate the growth and performance of our business as well as for planning and forecasting. In addition, our corporate and executive bonus programs are based in part on the company's success in meeting targets for growth in annual spend that are approved by our board. We believe that annual spend is a useful business metric to investors as it provides insight into the growth component of our term licenses and to how management evaluates and forecasts the business.

Annual spend increases as a result of new term license agreements with new or existing customers, renewals or modifications of existing term license agreements that result in higher license fees due to contractually-agreed price escalation or an increase in the number of tokens (units of software usage) or products licensed, and escalation of annual payments in our active term license agreements.

Annual spend is adversely affected by term license and standalone SMS agreements that are renewed at a lower entitlement level or not renewed and, to a lesser extent, by customer agreements that become inactive during the agreement's term because, in our determination, amounts due (or which will become due) under the agreement are not collectible. Because the annual spend calculation includes all of our active term license agreements, the reported balance may include agreements with customers that are delinquent in paying invoices, that are in bankruptcy proceedings, or where payment is otherwise in doubt.

As of December 31, 2020, approximately 87% of our term license agreements (by value) are denominated in U.S. dollars. For agreements denominated in other currencies, the company uses a fixed historical exchange rate to calculate annual spend in dollars rather than using current exchange rates, so that our calculation of growth in annual spend is not affected by fluctuations in foreign currencies.

Beginning in fiscal 2019 and for all future periods, for term license agreements that contain professional services or other products and services, we have included in the annual spend calculation the portion of the invoice allocable to the term license under Topic 606 rather than the portion of the invoice attributed to the license in the agreement. We believe that methodology more accurately allocates any discounts or premiums to the different elements of the agreement. We have not applied this methodology retroactively for agreements entered into in prior fiscal years.

We estimate that annual spend grew by approximately 1.3% during the second quarter of fiscal 2021, from \$596.2 million at September 30, 2020 to \$604.0 million at December 31, 2020, and by approximately 1.9% during the first six months of fiscal 2021, from \$593.1 million at June 30, 2020.

#### **Total Contract Value**

Total Contract Value ("TCV") is the aggregate value of all payments received or to be received under all active term license agreements, including maintenance and escalation. TCV was \$2.8 billion as of June 30, 2020. TCV is an annual metric and will be included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2021.

#### Bookings

Bookings is the total value of customer term license contracts signed in the current period, less the value of such contracts signed in the current period where the initial licenses are not yet deemed delivered, plus term license contracts signed in a previous period for which the initial licenses are deemed delivered in the current period.

Bookings increased from \$112.3 million during the three months ended December 31, 2019 to \$274.4 million during the three months ended December 31, 2020. Bookings increased from \$247.2 million during the six months ended December 31, 2019 to \$373.2 million during the six months ended December 31, 2020. The change in bookings is due to the timing of renewals.

### Free Cash Flow

We use a non-GAAP measure of free cash flow to analyze cash flows generated from our operations. Management believes that this financial measure is useful to investors because it permits investors to view our performance using the same tools that management uses to gauge progress in achieving our goals. We believe this measure is also useful to investors because it is an indication of cash flow that may be available to fund investments in future growth initiatives or to repay borrowings under the Amended and Restated Credit Agreement, and it is a basis for comparing our performance with that of our competitors. The presentation of free cash flow is not meant to be considered in isolation or as an alternative to cash flows from operating activities as a measure of liquidity.

*Free cash flow* is calculated as net cash provided by operating activities adjusted for the net impact of (a) purchases of property, equipment and leasehold improvements, (b) payments for capitalized computer software costs, and (c) other nonrecurring items, such as acquisition related receipts and payments.

The following table provides a reconciliation of GAAP net cash provided by operating activities to free cash flow for the indicated periods:



	Six Months Ended December 31,					
	2020			2019		
		(Dollars in	Thousands)			
Net cash provided by operating activities (GAAP)	\$	74,290	\$		62,207	
Purchases of property, equipment, and leasehold improvements		(522)			(968)	
Payments for capitalized computer software development costs		(895)			(70)	
Acquisition related payments		907			1,264	
Free cash flow (non-GAAP)	\$	73,780	\$		62,433	

Total free cash flow on a non-GAAP basis increased by \$11.3 million during the six months ended December 31, 2020 as compared to the same period of the prior fiscal year primarily due to changes in working capital. See additional commentary in the "Liquidity and Capital Resources" section below.

### Non-GAAP Income from Operations

Non-GAAP income from operations excludes certain non-cash and non-recurring expenses, and is used as a supplement to income from operations presented on a GAAP basis. We believe that non-GAAP income from operations is a useful financial measure because removing certain non-cash and other items provides additional insight into recurring profitability and cash flow from operations.

The following table presents our income from operations, as adjusted for stock-based compensation expense, amortization of intangibles, and other items, such as the impact of acquisition related fees, for the indicated periods:

	Three Months Ended December 31,			Increase / ( Cha	Six Months Ended December 31,				Increase / (Decrease) Change			
_	2020 2019		 \$	\$%		2020		2019		\$	%	
_					(Dollars in Thousands)							
GAAP income from operations \$	149,453	\$	42,939	\$ 106,514	248.1 %	\$	183,623	\$	96,329	\$	87,294	90.6 %
Plus:												
Stock-based compensation	9,096		7,559	1,537	20.3 %		15,364		16,834		(1,470)	(8.7)%
Amortization of intangibles	1,865		1,682	183	10.9 %		3,610		2,877		733	25.5 %
Acquisition related fees	1,821		(40)	1,861	(4,652.5)%		2,384		78		2,306	2,956.4 %
Non-GAAP income from operations	162,235	\$	52,140	\$ 110,095	211.2 %	\$	204,981	\$	116,118	\$	88,863	76.5 %

### **Critical Accounting Estimates and Judgments**

Note 2, "Significant Accounting Policies," to the audited consolidated financial statements in our Annual Report on Form 10-K for the fiscal year ended June 30, 2020 describes the significant accounting policies and methods used in the preparation of the consolidated financial statements appearing in this report. The accounting policies that reflect our critical estimates, judgments and assumptions in the preparation of our consolidated financial statements are described in "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Item 7 of our Annual Report on Form 10-K for the fiscal year ended June 30, 2020, and include the following:

### Revenue recognition

See Note 3, "Revenue from Contracts with Customers," to our Unaudited Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q for more information on our accounting policies related to revenue recognition.



# **Results of Operations**

# Comparison of the Three and Six Months Ended December 31, 2020 and 2019

The following table sets forth the results of operations and the period-over-period percentage change in certain financial data for the three and six months ended December 31, 2020 and 2019:

		Three Mo Decem			Increase / (Decrease) Change		Six Mont Decem	Increase / (Decrease) Change	
	2020			2019	%		2020	2019	%
					(Dollars in	Thou	sands)		
Revenue:									
License	\$	180,170	\$	72,436	148.7 %	\$	242,029	\$ 160,155	51.1 %
Maintenance		46,818		44,547	5.1 %		93,676	88,219	6.2 %
Services and other		6,730		9,029	(25.5)%		12,984	 17,815	(27.1)%
Total revenue		233,718		126,012	85.5 %		348,689	 266,189	31.0 %
Cost of revenue:									
License		2,238		2,009	11.4 %		4,374	3,669	19.2 %
Maintenance		4,128		4,584	(9.9)%		8,892	9,561	(7.0)%
Services and other		7,949		8,933	(11.0)%		16,515	17,514	(5.7)%
Total cost of revenue		14,315		15,526	(7.8)%		29,781	30,744	(3.1)%
Gross profit		219,403		110,486	98.6 %		318,908	 235,445	35.4 %
Operating expenses:									
Selling and marketing		26,575		28,500	(6.8)%		51,747	57,692	(10.3)%
Research and development		22,172		22,625	(2.0)%		44,702	45,118	(0.9)%
General and administrative		21,203		16,422	29.1 %		38,836	36,306	7.0 %
Total operating expenses		69,950		67,547	3.6 %		135,285	 139,116	(2.8)%
Income from operations		149,453		42,939	248.1 %		183,623	96,329	90.6 %
Interest income		9,304		8,428	10.4 %		17,973	16,404	9.6 %
Interest (expense)		(2,049)		(3,161)	(35.2)%		(4,144)	(6,161)	(32.7)%
Other (expense) income, net		(333)		(997)	(66.6)%		(1,802)	135	(1,434.8)%
Income before income taxes		156,375		47,209	231.2 %		195,650	 106,707	83.4 %
Provision for income taxes		27,223		7,408	267.5 %		33,787	13,392	152.3 %
Net income	\$	129,152	\$	39,801	224.5 %	\$	161,863	\$ 93,315	73.5 %



The following table sets forth the results of operations as a percentage of total revenue for certain financial data for the three and six months ended December 31, 2020 and 2019:

	Three Months December		Six Months Ei December 3		
	2020	2019	2020	2019	
		(% of Reven	ue)		
Revenue:					
License	77.1 %	57.5 %	69.4 %	60.2 %	
Maintenance	20.0	35.4	26.9	33.1	
Services and other	2.9	7.1	3.7	6.7	
Total revenue	100.0	100.0	100.0	100.0	
Cost of revenue:					
License	1.0	1.6	1.3	1.4	
Maintenance	1.8	3.6	2.6	3.6	
Services and other	3.4	7.1	4.7	6.6	
Total cost of revenue	6.1	12.3	8.5	11.5	
Gross profit	93.9	87.7	91.5	88.5	
Operating expenses:					
Selling and marketing	11.4	22.6	14.8	21.7	
Research and development	9.5	18.0	12.8	16.9	
General and administrative	9.1	13.0	11.1	13.6	
Total operating expenses	29.9	53.6	38.8	52.3	
Income from operations	63.9	34.1	52.7	36.2	
Interest income	4.0	6.7	5.2	6.2	
Interest (expense)	(0.9)	(2.5)	(1.2)	(2.3)	
Other (expense) income, net	(0.1)	(0.8)	(0.5)	0.1	
Income before income taxes	66.9	37.5	56.1	40.1	
Provision for income taxes	11.6	5.9	9.7	5.0	
Net income	55.3 %	31.6 %	46.4 %	35.1 %	

### Revenue

Total revenue increased by \$107.7 million during the three months ended December 31, 2020 as compared to the corresponding period of the prior fiscal year. The increase of \$107.7 million during the three months ended December 31, 2020 was comprised of an increase in license revenue of \$107.7 million and an increase in maintenance revenue of \$2.3 million, partially offset by a decrease in services and other revenue of \$2.3 million, as compared to the corresponding period of the prior fiscal year.

Total revenue increased by \$82.5 million during the six months ended December 31, 2020 as compared to the corresponding period of the prior fiscal year. The increase of \$82.5 million during the six months ended December 31, 2020 was comprised of an increase in license revenue of \$81.9 million and an increase in maintenance revenue of \$5.5 million, partially offset by a decrease in services and other revenue of \$4.8 million, as compared to the corresponding period of the prior fiscal year.

### License Revenue

	Three Months Ended December 31,				Increase / (Decrease) Change				Six Months Ended December 31,				Increase / (Decrease) Change		
	 2020		2019		\$	%			2020		2019		\$	%	
						(Dol	lars in	Thou	ısands)						
License revenue	\$ 180,170	\$	72,436	\$	107,734	148	3.7 %	\$	242,029	\$	160,155	\$	81,874	51.1 %	
As a percent of total revenue	77.1 %	Ď	57.5 %						69.4 %		60.2 %	1			

The period-over-period increase of \$107.7 million and \$81.9 million in license revenue during the three and six months ended December 31, 2020, respectively, was primarily attributable to an increase in bookings related to the timing of renewals.

### **Maintenance Revenue**

	Three Mo Decer			Increase / (I Char			Six Moı Decei	iths Ei nber 3		Increase / (D Chang	
	 2020	2019		\$	%		2020		2019	 \$	%
					(Dollars in T	Thou	ısands)				
Maintenance revenue	\$ 46,818	\$ 44,547	\$	2,271	5.1 %	\$	93,676	\$	88,219	\$ 5,457	6.2 %
As a percent of total revenue	20.0 %	35.4 %	, D				26.9 %		33.1 %		

We expect maintenance revenue to increase as a result of: (i) having a larger base of arrangements recognized on a ratable basis; (ii) increased customer usage of our software; (iii) adding new customers; and (iv) escalating annual payments.

The period-over-period increase of \$2.3 million and \$5.5 million in maintenance revenue during the three and six months ended December 31, 2020, respectively, was primarily due to growth of our base of arrangements, which include maintenance, being recognized on a ratable basis.

#### Services and Other Revenue

	Three M Dece	onths E mber 3			Increase / (De Chang			Six Mo Dece	nths Er mber 3			Increase / (De Chang	
	 2020		2019		\$	%		2020		2019		\$	%
						(Dollars in )	Thou	sands)					
Services and other revenue	\$ 6,730	\$	9,029	\$	(2,299)	(25.5)%	\$	12,984	\$	17,815	\$	(4,831)	(27.1)%
As a percent of total revenue	2.9 %	, D	7.1 %	, D				3.7 %	)	6.7 %	)		

We recognize professional services revenue for our time-and-materials ("T&M") contracts based upon hours worked and contractually agreed-upon hourly rates. Revenue from fixed-price engagements is recognized using the proportional performance method based on the ratio of costs incurred to the total estimated project costs.

Services and other revenue decreased \$2.3 million and \$4.8 million during the three and six months ended December 31, 2020, respectively, as compared to the corresponding period of the prior fiscal year primarily due to the timing and volume of professional services engagements.

#### Cost of Revenue

### **Cost of License Revenue**

	Three Mo Decer	onths H nber 3		Increase / (I Char			Six Mor Decer	nths Ei nber 3		Increase / (De Chang	
	 2020		2019	 \$	%		2020		2019	 \$	%
					(Dollars in	Thou	sands)				
Cost of license revenue	\$ 2,238	\$	2,009	\$ 229	11.4 %	\$	4,374	\$	3,669	\$ 705	19.2 %
As a percent of license revenue	1.2 %	)	2.8 %				1.8 %	,	2.3 %		

Cost of license revenue increased \$0.2 million and \$0.7 million for the three and six months ended December 31, 2020, respectively, as compared to the corresponding period of the prior fiscal year primarily due to increased amortization of intangible assets from acquisitions. License gross profit margin remained consistent at 98.8% and 97.2% for the three months ended December 31, 2020 and 2019, respectively, and 98.2% and 97.7% for the six months ended December 31, 2020 and 2019, respectively, due to the low cost of license revenue.

# **Cost of Maintenance Revenue**

	Three Mo Decer			Increase / (I Char			Six Moı Decei		Increase / (D Chan	
	 2020	2019		\$	%		2020	2019	 \$	%
					(Dollars in	Tho	usands)			
Cost of maintenance revenue	\$ 4,128	\$ 4,584	\$	(456)	(9.9)%	\$	8,892	\$ 9,561	\$ (669)	(7.0)%
As a percent of maintenance revenue	8.8 %	10.3 %	)				9.5 %	10.8 %		

Cost of maintenance revenue decreased \$0.5 million and \$0.7 million for the three and six months ended December 31, 2020, respectively, as compared to the corresponding period of the prior fiscal year. Maintenance gross profit margin was 91.2% and 89.7% for the three months ended December 31, 2020 and 2019, respectively, and 90.5% and 89.2% for the six months ended December 31, 2020 and 2019, respectively.

# **Cost of Services and Other Revenue**

	Three Mo Decer		Increase / (I Chai			Six Mon Decer		Increase / (I Chan	
	2020	2019	 \$	%		2020	2019	 \$	%
				(Dollars in	The	ousands)			
Cost of services and other revenue	\$ 7,949	\$ 8,933	\$ (984)	(11.0)%	\$	16,515	\$ 17,514	\$ (999)	(5.7)%
As a percent of services and other revenue	118.1 %	98.9 %				127.2 %	98.3 %		

The timing of revenue and expense recognition on professional service arrangements can impact the comparability of cost and gross profit margin of professional services revenue from year to year. For example, revenue from fixed-price engagements is recognized using the proportional performance method based on the ratio of costs incurred to the total estimated project costs.

Cost of services and other revenue decreased \$1.0 million and \$1.0 million for the three and six months ended December 31, 2020, respectively, as compared to the corresponding period of the prior fiscal year. Gross profit margin on services and other revenue was (18.1)% and 1.1% for the three months ended December 31, 2020 and 2019, respectively, and (27.2)% and 1.7% for the six months ended December 31, 2020 and 2019, respectively.

## **Gross Profit**

	Three Mo Decer			Increase / (D Chan			Six Mor Decer			Increase / (De Chang	
	 2020	2019		\$	%		2020	2019		\$	%
					(Dollars in	Tho	usands)				
Gross profit	\$ 219,403	\$ 110,486	\$	108,917	98.6 %	\$	318,908	\$ 235,445	\$	83,463	35.4 %
As a percent of revenue	93.9 %	87.7 %	)				91.5 %	88.5 %	)		

For further discussion of subscription and software gross profit and services and other gross profit, please refer to the "Cost of License Revenue," "Cost of Maintenance Revenue," and "Cost of Services and Other Revenue" sections above.

Gross profit increased by \$108.9 million and \$83.5 million for the three and six months ended December 31, 2020, respectively, as compared to the corresponding period of the prior fiscal year. Gross profit margin remained consistent at 93.9% and 87.7% for the three months ended December 31, 2020 and 2019, respectively, and 91.5% and 88.5% for the six months ended December 31, 2020 and 2019, respectively.

## **Operating Expenses**

# Selling and Marketing Expense

	Three Mo Decer	onths l nber 3			Increase / (D Chan			Six Mor Decer	nths Ei mber 3		Increase / (D Chan	
	 2020		2019		\$	%		2020		2019	 \$	%
						(Dollars in	Thou	ısands)				
Selling and marketing expense	\$ 26,575	\$	28,500	\$	(1,925)	(6.8)%	\$	51,747	\$	57,692	\$ (5,945)	(10.3)%
As a percent of total revenue	11.4 %	)	22.6 %	)				14.8 %	, D	21.7 %		

The period-over-period decrease of \$1.9 million in selling and marketing expense during the three months ended December 31, 2020 was primarily attributable to lower travel and event related costs of \$2.2 million.

The period-over-period decrease of \$5.9 million in selling and marketing expense during the six months ended December 31, 2020 was primarily attributable to lower travel and event related costs of \$5.5 million and lower compensation costs of \$0.6 million.

### **Research and Development Expense**

	Three M Dece	onths l mber 3			Increase / (D Chan			Six Moı Decer	iths Ei nber 3			Increase / (D Chang	
	2020		2019		\$	%		2020		2019		\$	%
						(Dollars in	Thou	ısands)					
Research and development expense \$	22,172	\$	22,625	\$	(453)	(2.0)%	\$	44,702	\$	45,118	\$	(416)	(0.9)%
As a percent of total revenue	9.5 %	ó	18.0 %	)				12.8 %	)	16.9 %	)		

The period-over-period decrease of \$0.5 million in research and development expense during the three months ended December 31, 2020 was primarily attributable to lower travel related costs of \$0.3 million.

The period-over-period decrease of \$0.4 million in research and development expense during the six months ended December 31, 2020 was primarily attributable to lower travel related costs of \$0.6 million.

## General and Administrative Expense

	Three Mo Decer				Increase / (I Char			Six Moi Decei	nths Ea mber 3			Increase / (D Chan	
	 2020		2019		\$	%		2020		2019		\$	%
						(Dollars in	Thou	ısands)					
General and administrative expense	\$ 21,203	\$	16,422	\$	4,781	29.1 %	\$	38,836	\$	36,306	\$	2,530	7.0 %
As a percent of total revenue	9.1 %	)	13.0 %	, )				11.1 %	)	13.6 %	ò		

The period-over-period increase of \$4.8 million in general and administrative expense during the three months ended December 31, 2020 was primarily attributable to higher acquisition costs of \$1.9 million, higher bad debt expense of \$1.4 million, and higher compensation costs of \$0.9 million.

The period-over-period increase of \$2.5 million in general and administrative expense during the six months ended December 31, 2020 was primarily attributable to higher bad debt expense of \$3.5 million and higher acquisition costs of \$2.3 million, partially offset by lower compensation costs of \$1.4 million and lower professional fees of \$1.6 million.



## Non-Operating Income (Expense)

# **Interest Income**

	Three M Dece	onths H nber 3		Increase / (E Chan			Six Mor Decer	ths Ei nber 3			Increase / (D Chan	
	 2020		2019	 \$	%		2020		2019		\$	%
					(Dollars in	Thou	ısands)					
Interest income	\$ 9,304	\$	8,428	\$ 876	10.4 %	\$	17,973	\$	16,404	\$	1,569	9.6 %
As a percent of total revenue	4.0 %	)	6.7 %				5.2 %	)	6.2 %	,		

The period-over-period increase of \$0.9 million and \$1.6 million in interest income during the three and six months ended December 31, 2020, respectively, was a result of: (i) increased customer usage of our software; (ii) adding new customers; and (iii) escalating annual payments.

#### **Interest Expense**

	Three Mo Decen		/ (Increase) / Char			Six Mon Decen		(Increase) / Chan	
	 2020	2019	 \$	%		2020	2019	 \$	%
				(Dollars in	Thou	isands)			
Interest expense	\$ (2,049)	\$ (3,161)	\$ 1,112	(35.2)%	\$	(4,144)	\$ (6,161)	\$ 2,017	(32.7)%
As a percent of total revenue	(0.9)%	(2.5)%				(1.2)%	(2.3)%		

The period-over-period decrease of \$1.1 million and \$2.0 million in interest expense during the three and six months ended December 31, 2020, respectively, was primarily due to lower interest expenses related to our Amended and Restated Credit Agreement.

#### Other (Expense) Income, Net

	Three Mo Decer	nths H nber 3		Increase / (E Chan			Six Mon Decen		Increase / (I Chai	
	 2020		2019	 \$	%		2020	2019	\$	%
					(Dollars in	1 Tho	usands)			
Other (expense) income, net	\$ (333)	\$	(997)	\$ 664	(66.6)%	\$	(1,802)	\$ 135	\$ (1,937)	(1,434.8)%
As a percent of total revenue	(0.1)%		(0.8)%				(0.5)%	0.1 %		

Other (expense) income, net is comprised primarily of unrealized and realized foreign currency exchange gains and losses generated from the settlement and remeasurement of transactions denominated in currencies other than the functional currency of our entities.

During the three months ended December 31, 2020 and 2019, other (expense) income, net was primarily comprised of \$(0.6) million and \$(1.0) million of currency losses, respectively.

During the six months ended December 31, 2020 and 2019, other (expense) income, net was primarily comprised of \$(2.1) million and \$0.2 million of currency (losses) gains, respectively.

# **Provision for Income Taxes**

	Three Months Ended December 31,			Increase / (Decrease) Change				Six Months Ended December 31,			Increase / (Decrease) Change			
		2020		2019		\$	%		2020		2019		\$	%
	(Dollars in Thousands)													
Provision for income taxes	\$	27,223	\$	7,408	\$	19,815	267.5 % \$	5	33,787	\$	13,392	\$	20,395	152.3 %
Effective tax rate		17.4 %	,	15.7 %					17.3 %	, D	12.6 %	)		

The effective tax rate for the periods presented is primarily the result of income earned in the U.S. taxed at U.S. federal and state statutory income tax rates, income earned in foreign tax jurisdictions taxed at the applicable rates, as well as the impact of permanent differences between book and tax income, primarily the Foreign Derived Intangible Income ("FDII") deduction. Assuming certain requirements are met, the FDII deduction is a benefit for U.S. companies that sell their products or services to customers outside the U.S.

Our effective tax rate was 17.4% and 15.7% during the three months ended December 31, 2020 and 2019, respectively, and 17.3% and 12.6% during the six months ended December 31, 2020 and 2019, respectively. Our effective tax rate was lower in the three and six months ended December 31, 2019 as a result of the tax contingency reversal due to settling an IRS audit.

We recognized an income tax expense of \$27.2 million and \$7.4 million during the three months ended December 31, 2020 and 2019, respectively, and \$33.8 million and \$13.4 million during the six months ended December 31, 2020 and 2019, respectively. Our income tax expense was driven primarily by pre-tax profitability in our domestic and foreign operations and the impact of permanent items. The permanent items are predominantly the FDII deduction, stock-based compensation expense and tax credits for research expenditures.

# Liquidity and Capital Resources

#### Resources

In recent years, we have financed our operations with cash generated from operating activities. As of December 31, 2020, our principal capital resources consisted of \$217.5 million in cash and cash equivalents.

We believe our existing cash and cash equivalents, together with our cash flows from operating activities, will be sufficient to meet our anticipated cash needs for at least the next twelve months. We may need to raise additional funds if we decide to make one or more acquisitions of businesses, technologies or products. If additional funding for such purposes is required beyond existing resources and our Amended and Restated Credit Agreement described below, we may not be able to effect a receivable, equity or debt financing on terms acceptable to us or at all.

### **Credit Agreement**

In December 2019, we entered into an Amended and Restated Credit Agreement with JPMorgan Chase Bank, N.A., as administrative agent, joint lead arranger and joint bookrunner, Silicon Valley Bank, as joint lead arranger, joint bookrunner and syndication agent, and the lenders and co-documentation agents named therein (the "Amended and Restated Credit Agreement"). The Amended and Restated Credit Agreement, which amends and restates the Credit Agreement we entered into as of February 26, 2016 with the same lenders (the "Prior Credit Agreement"), provides for a \$200.0 million secured revolving credit facility and a \$320.0 million secured term loan facility. The indebtedness under the revolving credit facility matures on December 23, 2024. Prior to the maturity of the Amended and Restated Credit Agreement, any amounts borrowed under the revolving credit facility may be repaid and, subject to the terms and conditions of the Amended and Restated Credit Agreement, borrowed again in whole or in part without penalty.

As of December 31, 2020, our current borrowings of \$16.0 million consist of the term loan facility. Our non-current borrowings of \$284.8 million consist of \$288.0 million of our term loan facility, net of \$3.2 million in debt issuance costs. We had current borrowings of \$135.2 million and non-current borrowings of \$292.4 million as of June 30, 2020.

For a more detailed description of the Amended and Restated Credit Agreement, see Note 12, "Credit Agreement," to our Unaudited Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q.



#### Cash Equivalents and Cash Flows

Our cash equivalents of \$1.0 million and \$1.0 million as of December 31, 2020 and June 30, 2020, respectively, consisted of money market funds. The objective of our investment policy is to manage our cash and investments to preserve principal and maintain liquidity.

The following table summarizes our cash flow activities for the periods indicated:

	Six Months Ended December 31,				
	 2020	2019			
	 (Dollars in Thousands)				
Cash flow provided by (used in):					
Operating activities	\$ 74,290	\$	62,207		
Investing activities	(17,526)		(75,257)		
Financing activities	(128,175)		21,708		
Effect of exchange rates on cash balances	1,104		(98)		
Increase (decrease) in cash and cash equivalents	\$ (70,307)	\$	8,560		

#### **Operating Activities**

Our primary source of cash is from the annual installments associated with our software license arrangements and related software support services, and to a lesser extent from professional services and training. We believe that cash inflows from our term license business will grow as we benefit from the continued growth of our portfolio of term license contracts.

Cash from operating activities provided \$74.3 million during the six months ended December 31, 2020. This amount resulted from net income of \$161.9 million, adjusted for non-cash items of \$32.4 million and net uses of cash of \$120.0 million related to changes in working capital.

Non-cash items during the six months ended December 31, 2020 consisted primarily of stock-based compensation expense of \$15.4 million, depreciation and amortization expense of \$4.9 million, reduction in the carrying amount of right-of-use assets of \$4.8 million, provision for bad debts of \$4.7 million, and net foreign currency losses of \$2.1 million.

Cash used by working capital of \$120.0 million during the six months ended December 31, 2020 was primarily attributable to cash used by increases in contract assets of \$123.4 million, decreases in accounts payable, accrued expenses and other current liabilities of \$7.1 million, and decreases in lease liabilities of \$5.2 million, partially offset by decreases in accounts receivable of \$8.4 million, increases in deferred revenue of \$7.0 million, and decreases in contract costs of \$0.3 million.

#### **Investing Activities**

During the six months ended December 31, 2020, we used \$17.5 million of cash for investing activities. We used \$15.9 million for payments for business acquisitions, net of cash acquired, \$0.9 million for capitalized computer software costs, \$0.5 million for capital expenditures, and \$0.2 million for equity method investments.

#### **Financing Activities**

During the six months ended December 31, 2020, we used \$128.2 million of cash for financing activities. This amount resulted from \$119.2 million of cash used for the repayment of the outstanding balance under our revolving credit facility, \$8.0 million of cash used for maturities of amounts borrowed under our term loan facility, and \$4.1 million of cash used for withholding taxes on vested and settled restricted stock units, partially offset by \$3.1 million for cash provided by the exercise of employee stock options.

## **Contractual Obligations**

Standby letters of credit for \$2.1 million and \$3.5 million secured our performance on professional services contracts, certain facility leases and potential liabilities as of December 31, 2020 and June 30, 2020, respectively. The letters of credit expire at various dates through fiscal 2026.



## Item 3. Quantitative and Qualitative Disclosures About Market Risk.

In the ordinary course of conducting business, we are exposed to certain risks associated with potential changes in market conditions. These market risks include changes in currency exchange rates and interest rates which could affect operating results, financial position and cash flows. We manage our exposure to these market risks through our regular operating and financing activities and, if considered appropriate, we may enter into derivative financial instruments such as forward currency exchange contracts.

#### Foreign Currency Risk

During the three months ended December 31, 2020 and 2019, 11.1% and 8.6% of our total revenue was denominated in a currency other than the U.S. dollar, respectively. During the six months ended December 31, 2020 and 2019, 9.9% and 7.0% of our total revenue was denominated in a currency other than the U.S. dollar, respectively. In addition, certain of our operating costs incurred outside the United States are denominated in currencies other than the U.S. dollar. We conduct business on a worldwide basis and as a result, a portion of our revenue, earnings, net assets, and net investments in foreign affiliates is exposed to changes in foreign currency exchange rates. We measure our net exposure for cash balance positions and for cash inflows and outflows in order to evaluate the need to mitigate our foreign exchange risk. We may enter into foreign currency forward contracts to minimize the impact related to unfavorable exchange rate movements, although we have not done so during the three and six months ended December 31, 2020 and 2019. Currently, our largest exposures to foreign exchange rates exist primarily with the Euro, Pound Sterling, Canadian Dollar, Japanese Yen, and Russian Ruble against the U.S. dollar.

We recorded \$(0.6) million and \$(1.0) million of net foreign currency exchange losses during the three months ended December 31, 2020 and 2019, respectively, and \$(2.1) million and \$0.2 million of net foreign currency exchange (losses) gains during the six months ended December 31, 2020 and 2019, respectively, related to the settlement and remeasurement of transactions denominated in currencies other than the functional currency exchange rates could have increased or decreased the consolidated results of operations by approximately \$2.8 million and \$0.2 million for the three months ended December 31, 2020 and 2019, respectively, and by approximately \$2.5 million and \$0.7 million during the six months ended December 31, 2020 and 2019, respectively.

#### Interest Rate Risk

We place our investments in money market instruments. Our analysis of our investment portfolio and interest rates at December 31, 2020 indicated that a hypothetical 100 basis point increase or decrease in interest rates would not have a material impact on the fair value of our investment portfolio determined in accordance with an income-based approach utilizing portfolio future cash flows discounted at the appropriate rates.

As of December 31, 2020, our current borrowings of \$16.0 million consist of the term loan facility. Our non-current borrowings of \$284.8 million consist of \$288.0 million of our term loan facility, net of \$3.2 million in debt issuance costs. We had current borrowings of \$135.2 million and non-current borrowings of \$292.4 million as of June 30, 2020. A hypothetical 100 basis point increase or decrease in interest rates paid on outstanding borrowings under the Credit Agreement would not have a material impact on our financial position, results of operations or cash flows.

## Investment Risk

During fiscal 2020, we entered into a limited partnership investment fund agreement. The primary objective of this partnership is investing in equity and equity-related securities (including convertible debt) of venture growth- stage businesses. We account for the investment in accordance with Topic 323, *Investments - Equity Method and Joint Ventures*. Our total commitment under this partnership is 5.0 million CAD (\$3.9 million). Under the conditions of the equity method investment, unfavorable future changes in market conditions could lead to a potential loss up to the full value of our 5.0 million CAD (\$3.9 million) commitment. As of December 31, 2020, the fair value of this investment is 0.7 million CAD (\$0.5 million), representing our payment towards the total commitment, and is recorded in non-current assets in our consolidated balance sheet.

#### Item 4. Controls and Procedures.

#### a) Disclosure Controls and Procedures

Our management, with the participation of our chief executive officer and chief financial officer, evaluated the effectiveness of our disclosure controls and procedures as of December 31, 2020. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Securities Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Securities Exchange Act is accumulated and communicated to the Company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of December 31, 2020, our chief executive officer and chief financial officer concluded that, as of such date, our disclosure controls and procedures were not effective due to a material weakness in internal control over financial reporting that was disclosed in our Annual Report on Form 10-K for the fiscal year ended June 30, 2020.

## b) Management's Plan to Remediate the Material Weakness

As previously described in Part II, Item 9A of our Annual Report on Form 10-K for the fiscal year ended June 30, 2020, we implemented a remediation plan to address the material weakness mentioned above. Management enhanced our risk assessment process over the design and implementation of internal controls over new and emerging financial reporting matters such as the adoption of ASU No. 2016-02, *Leases* ("Topic 842"). We also performed an updated risk assessment of revenue and associated contract balances controls and identified and designed enhanced review controls over the accounting for revenue contracts under Topic 606, including the use of additional reporting tools and additional reconciliation controls. The COVID-19 pandemic and resulting remote working environment made timely completion of these remediation procedures more challenging, and all remediation efforts were not fully completed as of June 30, 2020. As a result, management concluded that the material weakness in our internal control over the financial reporting had not been fully remediated as of June 30, 2020. The weakness will be considered remediated when the applicable controls operate for a sufficient period of time and management has concluded, through testing, that these controls are operating effectively. We expect that the remediation of this material weakness will be completed prior to the end of fiscal 2021.

#### c) Changes in Internal Controls Over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the six months ended December 31, 2020, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting, with the exception of the change in our controls resulting from the adoption of Topic 326 as described in

Note 2, "Significant Accounting Policies," to our Unaudited Consolidated Financial Statements. We performed a risk assessment and implemented changes to our processes and control activities. We will continue to review and document our disclosure controls and procedures, including our internal control over financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business.

# PART II - OTHER INFORMATION

# Item 1. Legal Proceedings.

None.

# Item 1A. Risk Factors.

The risks described in "Item 1A. Risk Factors" in our Annual Report on Form 10-K for the fiscal year ended June 30, 2020 and our Quarterly Report on Form 10-Q for the three months ended September 30, 2020, could materially and adversely affect our business, financial condition and results of operations. These risk factors do not identify all risks that we face—our operations could also be affected by factors that are not presently known to us or that we currently consider to be immaterial to our operations. The Risk Factors section of our 2020 Annual Report on Form 10-K remains current in all material respects, with the exception of the revised risk factors below.

# Our customers' business operations have been, and continue to be, subject to business interruptions arising from the COVID-19 pandemic. We continue to monitor the situation, but there can be no assurance that the pandemic will not result in delays or possibly reductions in demand for our solutions that could have a serious adverse effect on our business.

Many countries have imposed restrictions on travel and public assembly and closed schools and businesses in order to slow the spread of COVID-19. These governmental restrictions and related private sector responses have adversely affected the business operations of some of our customers and resulted in a slowdown in closing some customer contracts and, to a lesser extent, a delay in customer payments during the three and six months ended December 31, 2020. While the measures instituted in response to COVID-19 are expected to be temporary, the duration of the business disruptions and related operational and financial impact on our customers and us cannot be estimated with certainty at this time. The adverse effects on the economies and financial markets of many countries and markets may result in an economic downturn and changes in global economic policy that could reduce demand for our products and have a material adverse impact on our business, operating results and financial condition, including on our ability to collect accounts receivable. Our business may also be harmed if our employees are not able to perform services for customers on-site due to travel restrictions or facility closings.

# Fluctuations in foreign currency exchange rates could result in declines in our reported revenue and operating results.

During the three months ended December 31, 2020 and 2019, 11.1% and 8.6% of our total revenue was denominated in a currency other than the U.S. dollar, respectively. During the six months ended December 31, 2020 and 2019, 9.9% and 7.0% of our total revenue was denominated in a currency other than the U.S. dollar, respectively. In addition, certain of our operating expenses incurred outside the United States are denominated in currencies other than the U.S. dollar. Our reported revenue and operating results are subject to fluctuations in foreign exchange rates. Foreign currency risk arises primarily from the net difference between non-U.S. dollar receipts from customers outside the United States and non-U.S. dollar operating expenses for subsidiaries in foreign countries. Currently, our largest exposures to foreign exchange rates exist primarily with the Euro, Pound Sterling, Canadian Dollar, Japanese Yen, and Russian Ruble against the U.S. dollar. During the three and six months ended December 31, 2020 and 2019, we did not enter into, and were not a party to any, derivative financial instruments, such as forward currency exchange contracts, intended to manage the volatility of these market risks. We cannot predict the impact of foreign currency fluctuations, and foreign currency fluctuations in the future may adversely affect our revenue and operating results. Any hedging policies we may implement in the future may not be successful, and the cost of those hedging techniques may have a significant negative impact on our operating results.



# Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

The following table provides information about purchases by us during the three months ended December 31, 2020 of shares of our common stock:

Period	Total Number of Shares Purchased (2)	Average Price Paid per Share (3)	Total Number of Shares Purchased as Part of Publicly Announced Program (1)	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Program (4)
October 1 to 31, 2020	_	\$ —	_	
November 1 to 30, 2020	—	\$ —		
December 1 to 31, 2020	_	\$ —		
Total		\$ —		\$ 200,000,000

(1) On January 22, 2015, our Board of Directors approved a share repurchase program (the "Share Repurchase Program") for up to \$450.0 million worth of our common stock. On April 26, 2016, June 8, 2017, April 18, 2018, December 6, 2018, and April 17, 2019, the Board of Directors approved a \$400.0 million, \$200.0 million, \$200.0 million, \$100.0 million, and \$200.0 million increase in the Share Repurchase Program, respectively. On July 22, 2020, our Board of Directors approved a new share repurchase program (the "New Share Repurchase Program") for up to \$200.0 million worth of our common stock, and terminated the Share Repurchase Program.

(2) As of December 31, 2020, the total number of shares of common stock repurchased under all programs approved by the Board of Directors was 36,270,015.

(3) The total average price paid per share is calculated as the total amount paid for the repurchase of our common stock during the period divided by the total number of shares repurchased.

(4) As of December 31, 2020, the total remaining value under the New Share Repurchase Program was approximately \$200.0 million.

# Item 6. Exhibits.

Exhibit Number	Description
31.1	<u>Certification of Principal Executive Officer pursuant to Exchange Act Rules 13a-14 and 15d-14, as adopted pursuant to</u> <u>Section 302 of the Sarbanes-Oxley Act of 2002</u>
31.2	<u>Certification of Principal Financial Officer pursuant to Exchange Act Rules 13a-14 and 15d-14, as adopted pursuant to</u> <u>Section 302 of the Sarbanes-Oxley Act of 2002</u>
32.1	Certification of President and Chief Executive Officer and Senior Vice President and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Dage Interactive Data File (embedded within the Inline XDDI, document)
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

# SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

	Aspen Technology, Inc.				
Date: January 27, 2021	By: /s/ ANTONIO J. PIETRI				
		Antonio J. Pietri			
		President and Chief Executive Officer			
		(Principal Executive Officer)			
Date: January 27, 2021	By:	/s/ KARL E. JOHNSEN			
		Karl E. Johnsen			
		Senior Vice President and Chief Financial Officer			
		(Principal Financial Officer)			

### CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Antonio J. Pietri, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aspen Technology, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: January 27, 2021

## /s/ ANTONIO. J. PIETRI

Antonio J. Pietri President and Chief Executive Officer (Principal Executive Officer)

## CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Karl E. Johnsen, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aspen Technology, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: January 27, 2021

### /s/ KARL E. JOHNSEN

Karl E. Johnsen Senior Vice President and Chief Financial Officer (Principal Financial Officer)

#### CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Aspen Technology, Inc. (the "Company") for the quarter ended December 31, 2020, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned hereby certifies in his capacity as an officer of the Company, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: January 27, 2021

## /s/ ANTONIO J. PIETRI

Antonio J. Pietri President and Chief Executive Officer

Date: January 27, 2021

/s/ KARL E. JOHNSEN

Karl E. Johnsen Senior Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906 has been provided to Aspen Technology, Inc. and will be retained by Aspen Technology, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.