NOTICE

DOCUMENT TITLE: Example of Form T661 (PDF, 83 KB)

http://www.cra-arc.gc.ca/txcrdt/sred-rsde/pblctns/xmplt661-eng.html

Date Posted at Scitax.com: 22-Dec-2008

This document is placed here for purposes of discussion and general information only.

While every reasonable attempt has been made to present information that is correct and current at the date of publication, we make no guarantee that this document or the information contained in it is the latest or most current version.

You are advised to check the Canada Revenue Agency website to confirm the latest most recent version. This document and all other Canada Revenue Agency documents pertaining to SR&ED can be found at:

http://www.cra-arc.gc.ca/txcrdt/sred-rsde/frmsgd-eng.html

All matters of taxation are determined by government legislation which is subject to change and while we will update this report from time-to-time, we cannot guarantee that this or any version is current as you read it. No one should act upon this information without appropriate professional advise specific to the facts and circumstances of their particular situation.

Contact Scitax on (416) 350-1214 for further information or assistance with this topic.



SCIENTIFIC RESEARCH AND EXPERIMENTAL DEVELOPMENT (SR&ED) EXPENDITURES CLAIM

Use this form:

- to provide technical information on your SR&ED projects;
- to calculate your SR&ED expenditures; and
- to calculate your qualified SR&ED expenditures for investment tax credits (ITC).

To claim an ITC, use either:

- Schedule T2SCH31, Investment Tax Credit Corporations, or
- Form T2038(IND), Investment Tax Credit (Individuals).

Your SR&ED claim must be filed within 12 months of the filing due date of your income tax return.

To help you fill out this form, use the T4088, <i>Guide to Form T66</i>	1, which is available on our Web	site: www.cra.gc.ca/sred.
		\wedge
Part 1 – General information		
Complete this part for the business making the claim.		
010 Name of claimant	Enter one of the following:	
T661 LTD	Incorporated business:	98765 4321 RC0001 Business Number (BN)
Tax year From: 2 0 0 8 0 1 0 1 Year Month Day To: 2 0 0 8 1 2 3 1 Year Month Day	Individual:	Social Insurance Number (SIN)
Total number of projects you are claiming this tax year:	Partnership: Partn	nership Identification Number (PIN)
100 Contact person for the financial information	105 Telephone number/extension	110 Fax number
C. Ounter	555-555-5555	555-555-5551
115 Contact person for the technical information	120 Telephone number/extension	125 Fax number
D. Boss	555-555-5559	555-555-5551
151 If this claim is filed for a partnership, was Form T5013 filed?		
If you answered no to line 151, complete lines 153, 156 and 157.		
Name of Partners	156 % 157	BN or SIN
1		
2		
3		
4		
5		



Section A - Project identification

those encountered in data warehouses.

[320 words]

Complete a separate Part 2 for each project claimed this year.

200		title (and identifica		·	0.4			
	Data	warehouse ma	ınagement – F	Project code 98-00	01			
202	Project	start date		204 Completic	n or expected	completion date		Field of science or technology code (See guide for list of codes)
		2008	Mar		2008	Nov.		,
Proi	ect histor	Year rv	Month		Year	Month		1.02.03
208		-	previously claime	d project	210 1	V First claim for	r the project	
218	Was ar	ny of the work done	e jointly or in collab	poration with other busi	nesses?			
If yo	u answe	red yes to line 218						
220				Names of the	businesses			221 BN
1								
3								
-	work wa	s carried out (chec	k any that apply)				\wedge	
222	1	By analysis only			226 1	In a commerc	cial plant or fac	cility
223	1	In a laboratory			228 1	Others, speci	fy 229	
224	1 √	In a dedicated res	search facility					
Purp	ose of th		rological advancer	nent for the nurness of	araatina naw	or \		
230	1 √	improving existing		nent for the purpose of es, products or process levelopment)		232		advancement of scientific knowledge. Section C – Basic or applied research)
							\longleftrightarrow	
Sec	tion B	- Experimental	development					
		•	•	achieve with this work	withregult in:		$\overline{}$	
1116	tecimolo	gicai advancemen	t you are trying to	acriieve with this work		rials, devices, or pr	raduata.	Processes
Г-	The days	Jonmont of now			235	liais, devices, or pr	oducis	236
_	ne deve	elopment of new			$\overline{}$			
	The impre	ovement of existing	9		237	ί√		1
240	What	technological ad	vancements werê	you trying to achieve?	(Maximum 35	50 words)		
rel be sta By alr dic	ational en com tic in n contra nost ce tionary	database table nmercialized in nature. ast, the overwhertainly dynaminature, opposed to the control of the con	es. At the time larger softwar elming propor c in character. uld be surpass	this work began re applications. He tion of data enterin We assumed that sed by developing	numerous owever, pra ng data wa t conventio methods ti	database compactically all of the rehouses could be could be at would explored.	pression mene methods I not be assigned data compoit the unique	nniques by concentrating on the compression of ethods were available and many of these had relied on data being uniformly distributed and sumed to be uniformly distributed and was ression methods, such as the loss-less are properties of those data sets that were not in this project through the development of data
со	mpress	sion algorithms	based on an		namic char	acter and non-		tribution of the data sets entering the data
	• th	e use of a table	e-wide list of n	nn value frequency nost frequent value frefresh operations	es for the c	compression die	ctionary;	ck-based compression dictionary; ntire tables;
								ls are made to uncompress multiple blocks.
								a number of measures based on CPU utilization e scan, and table access by row ID. One

additional outcome of this work was that the dynamic, non-uniform data compression method developed here actually provided performance improvements for data backup and recovery operations when applied to very large databases in excess of 2.5 million rows (1.3 GB) such as

Page 2 of 8

What technological obstacles did you have to overcome to achieve those advancements? (Maximum 350 words)

There were a number of specific technological obstacles that drove the systematic investigations described further.

We were looking for an appropriate methodology of modeling our dynamic, non-uniform data distribution in real data for the purposes of the compression prototypes.

There were no methodologies, techniques, or models available to us to characterize dynamic, non-uniform data. Our review of available techniques revealed in the early phase of the project that we had to undertake investigation leading to the development of a dataset model suitable to reflect in an efficient way our specific dataset characteristics. The second technological shortcoming was that we did not know and we could not find any technique or methodology related to the data compression, which would specifically deal with this data model related to dynamic, non-uniform data. We realized that if we develop a suitable model to characterize dynamic, non-uniform data then we would find no established techniques to be applied to the data compression aspect that would effectively and efficiently exploit the general features of this abstract data model previously mentioned. The effectiveness of each feature had to be verified in terms of data integrity and benchmark performance comparisons. Once a series of candidate compression algorithms became available the subsequent technical shortcomings were associated with the possibility of implementing a dynamic compression technique for dataset additions and/or updates on a batch basis. Finally, we were planning to develop an acceptable and valid methodology of setting up some general rules related to an optimal data table compression-block size applicable to both the initial data set analysis and the dynamic analysis. We felt that such a relationship should exist and we decided to undertake an investigation to be able to prove it. We also realized that such methodology is not readily available so we would have to address this issue and develop a technique potentially leading to determining an optimal data-block size.

[314 words]

What work did you perform in the tax year to overcome those technological obstacles? (Summarize the systematic investigation) (Maximum 700 words)

Following a review of available software methods and dataset characterization techniques, beginning in March 2008 the first phase of the investigations focused on the analysis of a very large data set (known to be dynamic with a non-uniform distribution) in relational database form. This analysis involved a number of investigations, using selected well-known methods in software engineering, with the aim of creating a generalized model of a data set. This also included the extraction of a number of dataset-specific conclusions regarding row and column correlations and distributions, some of which are briefly outlined above in the technological advancements section. At the end of this first phase we found that a reasonably accurate data set model could be created. This was further tested and the data set model accuracy was verified and validated against several concrete smaller-sized relational databases available to us in the data warehouse.

In the second phase, starting in May 2008, a number of compression methods were developed in prototype forms to exploit the general features of the data model. Each prototype carried a set of specific assumptions regarding how the dataset characteristics might be exploited and each was subsequently verified for integrity and then benchmarked for performance. This benchmarking was done through measures of CPU utilization and data throughput for parallel load, delete/update operations, full table scan, and table access by row ID. In direct support of this work, several test scripts were written to test the compression algorithm. Although the development of these scripts included no significant technological challenge, they were necessary to benchmark the new algorithms and determine the most appropriate solution. The benchmarking results were documented and are available for further review if requested.

The third phase was carried out in June and July 2008. Three candidate compression algorithms were modified to include an implementation of several different dynamic compression techniques for dataset additions and/or updates. Each of these again had the data integrity verified and performance benchmarked, the latter now including update/refresh-specific performance measures. In August 2008, a final prototype was selected for widespread commercial implementation ending this aspect of the experimental development.

During October 2008 the implemented prototype was used to determine whether or not an optimal data table compression-block size could be determined by both the initial data set analysis and the dynamic analysis. However, this work failed to establish that such a relationship existed and was subsequently abandoned, ending the project in November 2008.

As part of this effort the Company engaged an outside contractor for a period of two months to extend the data compression method to a wider range of common data warehouse operations in September 2008. Included in this work was an exploration into use of the implemented compression prototype for data backup and recovery operations. As the result of this work it was found out and further documented that the prototype provided measurable performance improvements when applied to very large databases in excess of 2.5 million rows (1.3 GB) such as those typically encountered in data warehouses. Subsequent investigations revealed that this was primarily due to the construction of the compression dictionary rather than the data blocks. [521 words]

(Go to Section D)

Section C – Basic or applied research	
Describe the scientific knowledge that you were trying to advance. (Maximum 35)	0 words)
Our Currency in a the quark performed in the tay year, and evaloin bout that you're contri	but all to the advancement of acceptific lineuplates (Cummoving the protomotic investigation)
(Maximum 700 words)	buted to the advancement of scientific knowledge. (Summarize the systematic investigation)
	^
Section D – Additional project information	
Who prepared the responses for Section B or Section C?	
253 1 V Employee directly involved in the project D Tester	
D. 100001	
Other employee of the company	
257 1 External consultant	259 Firm
List three key employees directly involved in the project and indicate their qualifications Names	
Names Names	Administration of the position with
1 D. Boss	M.Sc. Computer Science / Lead Developer
2 D. Ata	B.Cc. Electrical Engineering / Programmer
3 M. Acro	Diploma in Electronics / Data base developer
265 Are you claiming any salary or wages for SR&ED performed outside Canada?	1 Yes 2 V No
266 Are you claiming expenditures for SR&ED carried out on behalf of another party?	1 Yes 2 V No
267 Are you claiming expenditures for SR&ED performed by people other than your e	
If you answered yes to line 267, complete lines 268 and 269:	mployees?
268 Names of individuals or companies	269 Social Insurance Number or Business Number
	222 222 222
1 A. Beta	
What suidenes do you have to support your slow? (Chark applied applied	
What evidence do you have to support your claim? (Check any that apply) You do not need to submit the evidence with the claim. However, you are required to re	stain them in the event of a review.
270 1 V Project planning documents 276 1	V Progress reports, minutes of project meetings
271 1 V Records of resources allocated to the project, time sheets 277 1	Test protocols, test data, analysis of test results, conclusions
272 1 Design of experiments 278 1	Photographs and videos
273 1 Project records, laboratory notebooks 279 1	Samples, prototypes, scrap or other artefacts
274 1 V Design, system architecture and source code 280 1	V Contracts
275 1 Records of trial runs 281 1	Others, specify 282
Section E – Project cost	
Project expenditures claimed in the year: 285 Salary or wages	\$ 194,600
286 Materials consumed and transformed	e
287 SR&ED contracts	¢ 32,000
289 Overhead and other expenditures (if you use the traditional method in Part 3)	Φ.

Part 3 - Calculation of SR&ED expenditures

What did you spend on your SR&ED projects?	
Section A – Select the method to calculate the SR&ED expenditures	
I elect (choose) to use the following method to calculate my SR&ED expenditures and related investment tax credits (ITCs) for this tax year. I understand that my election is irrevocable (cannot be changed) for this tax year.	
I elect to use the proxy method (Tip: Enter "0" on line 360. Complete Part 5 and no need to track any expenditure incurred for overhead)	
I choose to use the traditional method (Tip: Enter "0" on line 355. Complete line 360, and track any expenditure incurred for overhead)	
Section B – Calculation of allowable SR&ED expenditures (to the nearest dollar)	
SR&ED portion of salary or wages of employees directly engaged in the SR&ED:	
a) Employees other than specified employees for work performed in Canada	300 + 94,600
b) Specified employees for work performed in Canada	305 + 100,000
Subtotal (add lines 300 and 305)	306 = 194,600
c) Employees other than specified employees for work performed outside Canada (subject to limitations – see guide)	307 +
d) Specified employees for work performed outside Canada (subject to limitations – see guide)	309 +
Salary or wages identified on line 315 in prior years that were paid in this tax year	√310 +
Salary or wages incurred in the year but not paid within 180 days of the tax year end	<u> </u>
Cost of materials consumed in performing SR&ED	320 +
Cost of materials transformed in performing SR&ED	325 +
Contract expenditures for SR&ED performed on your behalf:	
a) Arm's length contracts	340 + 32,000
b) Non-arm's length contracts	345 +
Lease costs of equipment used:	
a) All or substantially all (90% of the time or more) for SR&ED	350 +
b) Primarily (more than 50% of the time but less than 90%) for SR&ED. (Enter 50% of lease costs if you use the proxy method or enter "0" if you use the traditional method)	355 +
Overhead and other expenditures (enter "0" if you use the proxy method)	360 +
	370 +
Total current SR&ED expenditures (add lines 306 to 370; do not add line 315) (Tip: Corporations may need to adjust line 118 of schedule T2SCH1)	380 = 226,600
Capital Expenditures (see guide for what qualifies for SP&ED) (Tip: These capital expenditures should not be included on schedule T2SCH8)	390 + 15,000
Total allowable SR&ED expenditures (add lines 380 and 390)	400 = 241,600
Section C – Calculation of pool of deductible SR&ED expenditures (to the nearest dollar)	
Amount from line 400	420 241.600

Section C – Calculation of pool of deductible SR&ED expenditures (to the nearest dollar)		
Amount from line 400	420	241,600
Less		
provincial government assistance for expenditures included on line 400	429	- 36,240
other government assistance for expenditures included on line 400	431	- 7,500
non-government assistance for expenditures included on line 400	432	
SR&ED ITCs applied and/or refunded in the prior year (see guide). No claim filed in the prior year.	435	_ 0
sale of SR&ED capital assets and other deductions	440	
Subtotal (line 420 minus lines 429 to 440)	442	= 197,860
Add		
repayments of government and non-government assistance that previously reduced the SR&ED expenditure pool	445	
prior year's pool balance of deductible SR&ED expenditures (from line 470 of prior year T661)	450	+
SR&ED expenditure pool transfer from amalgamation or wind-up	452	+
amount of ITC recaptured in the prior year	453	+
Amount available for deduction (add lines 442 to 453) (enter positive amount only, include negative amount in income)	455	= 197,860
Deduction claimed in the year (Tip: Corporations should enter this amount on line 411 of schedule T2SCH1)	460	_ 197,860
Pool balance of deductible SR&ED expenditures to be carried forward to future years (line 455 minus 460)	470	= 0

^{*} Form T1263, Third-Party Payments for Scientific Research and Experimental Development (SR&ED)

Part 4 - Calculation of qualified SR&ED expenditures for investment tax credit (ITC) purposes

The resulting amount is used to calculate your refundable and/or non refundable ITCs.

Enter the breakdown between current and capital expenditures		Current Expenditures		Capital Expenditures
Total expenditures for SR&ED (from lines 380 and 390).	492	226,600	496	15,000
Add				
payment of prior years' unpaid amounts (other than salary or wages)	500	+		
prescribed proxy amount (complete Part 5) (Enter "0" if you use the traditional method)	502	+ 111,865		
expenditures on shared-use equipment (see guide)			504	+
qualified expenditures transferred to you (complete Form T1146**)	508	+	510	+
Subtotal (add lines 492 to 508, and add lines 496 to 510)	511	= 338,465	512	= 15,000
Less		^		
provincial government assistance	513	- 50,770	514	- 2,250
other government assistance	515	/ 7,500	516	_
non-government assistance and contract payments	517	-	518	_
current expenditures (other than salary or wages) not paid within 180 days of the tax year end	520	_		
amounts paid in respect of an SR&ED contract to a person or partnership that is not a taxable supplier	528	_		
prescribed expenditures not allowed by regulations (see guide)	530	- /)	532	-
other deductions (see guide)	533		535	-
non-arm's length transactions assistance allocated to you (complete Form T1145*)	538	_	540	_
- expenditures for non-arm's length SR&ED contracts (from line 345)	541	_		
purchases (limited to costs) of goods and services from non-arm's length suppliers (see guide)	> 542	_	543	_
- qualified expenditures you transferred (complete Form T1146**)	544	_	546	_
Subtotal (line 511 minus lines 513 to 544 and line 512 minus lines 514 to 546)	557	= 280,195	558	= 12,750
Qualified SR&ED expenditures (add lines 557 and 558)			559	= 292,945
Add			E C C	_
repayments of assistance and contract payments made in the year			560	+
Total qualified SR&ED expenditures for ITC purposes (add lines 559 and 560)			570	= 292,945

^{*} Form T1145, Agreement to Allocate Assistance Between Persons Not Dealing at Arm's Length for Scientific Research and Experimental Development (SR&ED)

^{**} Form T1146, Agreement to Transfer Between Persons Not Dealing at Arm's Length Qualified Expenditures Incurred in Respect of Scientific Research and Experimental Development (SR&ED) Contracts

Part 5 – Calculation of prescribed proxy amount (PPA)

A notional amount representing your overhead and other expenditures.

This part calculates the PPA to enter on line 502 in Part 4. Do not complete this part if you have chosen to use the traditional method in Part 3 (line 162) You can only claim a PPA if you elected to use the proxy method for the year in Part 3 (line 160).

Special rules apply for specified employees. Calculate your salary base in Section A and the PPA in section B.

Section A – Salary base								
Salary or wages of employees	other than specified employee	s (from lines 300 an	d 307)			810	+	94,600
Less:								
Bonuses, remuneration based	on profits, and taxable benefits	that were included	on line 810			812	_	
Subtotal (line 810 minus 812)						814	=	94,600
Salary or wages of speci	fied employees				^			
850	852	854	856	858	860			
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6			
Name of Specified Employee	Total salary or wages for the year (SR&ED and non-SR&ED) excluding bonuses, remuneration based on profits, and taxable benefits	% of time spent on SR&ED (maximum 75%)	Amount in column 2 multiplied by percentage in column 3	2.5 x A x B/365 A = Year's maximum pensionable earnings B = Nixmber of days employed in tax year	Amount in column 4 or 5, whichever amount is less			
1 D. Boss	90,000	75%	67,500	1,12,250	67,500			
2 D. Owner	100,000	10%	10,000	112,250	10,000			
3		<						
4								
5		1						
6								
7		1						
8								
9		$\overline{}$						
10								
			(Enter total of colur	nn 6 on line 816)	77,500	816	+	77,500
Salary base (total of lines 814	and 816)					818	=	172,100

Section B - Prescribed proxy amount (PPA)

820 = 111,865

Overall cap on PPA

The amount you can claim on line 502 in Part 4 is limited to the expenses of your business minus certain specific deductions such as rent for a building, capital cost allowance, and interest expense. (See the guide for an explanation)

total you entered on line 605, estimate the percentage of distribution of the sources of funds of performed within your organization. 600 companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives). 608 contracts 608 fail funding 610 contract work performed for other companies on their behalf 612 unding (e.g., universities, foreign governments) 616 funding sand engineers 608 foreign governments 619 foreign governments 610 foreign governments 610 foreign governments 611	Canadian (%) 96% 4%	604 614 618	209,600 Foreign (%)
performed within your organization. 600 companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives). 606 contracts 608 contracts 610 contract work performed for other companies on their behalf cunding (e.g., universities, foreign governments) 616 cunding of SR&ED personnel: cuts and engineers cors and administrators	96%	614	Foreign (%)
performed within your organization. 600 companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives). 606 contracts 608 contracts 610 contract work performed for other companies on their behalf cunding (e.g., universities, foreign governments) 616 cunding of SR&ED personnel: cuts and engineers cors and administrators	96%	614	Foreign (%)
companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives) contracts fial funding contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) fits and engineers dogists and technicians foreign governments foreign go	96%	614	Foreign (%)
companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives) contracts fial funding contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) funding of SR&ED personnel: sts and engineers logists and technicians ers and administrators		614	
companies, subsidiaries, and affiliated companies grants (do not include funds or tax credits from SR&ED tax incentives) contracts fial funding contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) funding of SR&ED personnel: sts and engineers logists and technicians ers and administrators		614	
grants (do not include funds or tax credits from SR&ED tax incentives) contracts fall funding contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) funding (s.g., universities, foreign governments) for sand engineers dogists and technicians ers and administrators	4%	614	
contracts fall funding	4%		
contract work performed for other companies on their behalf contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) furnities and engineers dogists and technicians ers and administrators			
contract work performed for other companies on their behalf unding (e.g., universities, foreign governments) further of SR&ED personnel: ats and engineers logists and technicians ers and administrators			
anding (e.g., universities, foreign governments) number of SR&ED personnel: tts and engineers logists and technicians ers and administrators			
number of SR&ED personnel: sits and engineers logists and technicians ers and administrators		618	
logists and technicians ers and administrators	\		
logists and technicians ers and administrators	·/		
logists and technicians	. / /	632	2
ers and administrators		634	2
	/	636	
to initial supporting stail		638	
	.,,		
Claim checklist			
ts required for a complete claim. Make sure you have:			
I the current version of this form			V
red the method you have chosen for reporting your SR&ED expenditures in Section A of Part 3			<u>V</u>
			1/
a completed Schedule T2SCH31 or Form T2038(IND) to claim ITCs on your qualified SR&ED expenditures			<u>V</u>
a completed Form T1145, T1146, T1174* and/or T1263 including any required attachments, if applicable			
a completed 10mm 11140, 11174 and of 11200 motidating they required attachments, if applicable			
e processing your claim, make sure you have:			
pleted Form T2, Corporation Income Tax Return or Form T1, Income Tax and Benefit Return			
the appropriate provincial and/or territorial tax credit forms, if applicable			🗸
ned documents to support the SR&ED expenditures you claimed			🗸
ked boxes 231 and 232 on page 2 of your T2 return to indicate attachment of Form T661 and Schedule T2SCH31			√
74, Agreement Between Associated Corporations to Allocate Salary or Wages of Specified Employees for Scientific Re	esearcn and Experim	ientai Dev	/eiopment (SH&Ei
Certification			
at I have examined the information provided on this form and on the attachments and it is true, correct, and complete.			
D. Boss	170		Date
			•
e of authorized signing officer of the corporation, or individual Signature			