

VIEWS²⁰⁰¹

**Parallel
Processing
and Multi-
Tasking
in SAS before V9**

Peter Crawford

**Crawford Software Consultancy
Limited**

Overview

Parallel Processing and Multi-Tasking in SAS before V9

- In V9, SAS[®] seeks “faster time to solution” by processing more than “one-at-a-time”.
- What can we do now ?

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Introduction

- Push for Performance in SAS[®]
- Parallel Processing
- Future is V9 +
- but we want it now!

Topics to be Covered

- Overview and Introduction
- Current multiprocessing
- Future proposals in V9
- Available now
- Demonstration in V6 and V8
- Question

Current multiprocessing

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- **SAS/Connect MP connect (see**
<http://ewe3.sas.com/techsup/download/technote/ts632.pdf>)
Author: Cheryl Doninger SAS Institute Inc.
 - **Asynchronous remote sessions**
 - **waitFor _any_ _all_ ;**
- **SPDS partitioned data**
 - **SORT , Summary**

Future proposals in V9 *IEWS²⁰⁰¹*

- SUGI 26 presents multithreading ...(see <http://www.sas.com/usergroups/sugi/proceedings/index.html>)
- Paper #35-26 Improving Productivity with MP CONNECT by Wen Lin
- Paper #269-26 SAS Multi-Process Connect: What, When, Where, How, and Why by John E. Bentley)
- SSA
- evolve to thread-hot code (see <http://www.sas.com/rnd/base/topics/scalingfuture/scalingfuture.pdf>)

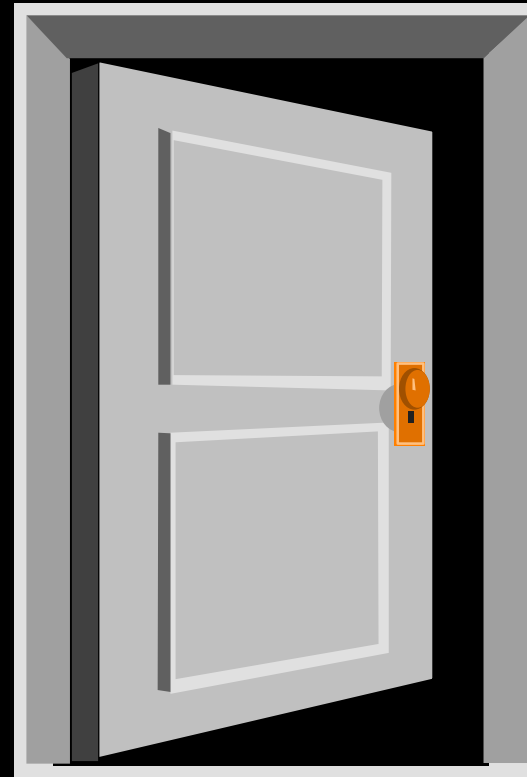
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Available now

- **In SAS**
 - MP Connect
 - SPDS
- **Outside of SAS**
 - SMP
 - host operating system

Demonstration

- Independent tasks
- concurrent
- coordinated



Conclusion

- Some multi-tasking is available.
- We can and should start preparing for SSA

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Question

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About the Speaker

Speaker **Peter Crawford**

company **Crawford Software**
and **Consultancy Limited**
Location **31 Sefton Road**
 Croydon, Surrey
 CR0 7HS
 UK

Telephone **+44(0) 20 8656-1794**

Fax **+44(0) 8700 522 634**

E-Mail **Peter@CrawfordSoftware.demon.co.uk**