

Compuware
PRODUCTION
2000



Products, People and Practices
designed to keep applications running
into the next millennium and beyond

The Century Date Change and Your Applications

Solving the Year 2000 issue doesn't require a breakthrough in technology or methodology. At its simplest definition, it is a technical dilemma that you already know how to fix. Nonetheless, this task is daunting due to the scope of the problem. Year 2000 may affect every revenue-generating application in your organization and thus has a direct impact on your company's profitability. This is a business problem with strategic implications.

Solving Year 2000 means converting an enormous amount of code in a limited amount of time and making sure it works. All the while, you need to enhance applications, implement new technologies, and control costs.

Solving Year 2000 requires a common sense approach that keeps your applications working and allows you to focus on strategic issues. For over twenty years, Compuware has helped organizations manage critical projects and meet important deadlines — deadlines like January 1, 2000.

PRODUCTION 2000, Compuware's century date solution, is a powerful combination of products, people, and practices focused on cost savings and productivity improvements for Year 2000 conversion projects.

**From This
Century to the Next,**

Applications Must Succeed

Compuware respects the need to keep your business competitively positioned in its marketplace. We also know that every business is different with unique standards, processes, and priorities. That's why PRODUCTION 2000 is designed to provide a flexible, customizable solution to your year 2000 conversion needs. With our products, people, and practices, century-date-change work will get done. And throughout the process, we focus on the accuracy and availability of your IS organization's greatest enabling asset — the applications responsible for your business success.

Understanding the Problem is Simple

Here we are again, staring into the abyss of yet another computing crisis. Will it never end? Unfortunately, change brings complexity, and in our industry, change is never-ending. Now along comes Year 2000, a problem ironically caused by *lack* of change and the hope that somehow from somewhere an answer would be found to make it go away. Who would have guessed that such a profound problem would be caused by a low-tech miscalculation in a high-tech industry?

Applying the Right Solutions is Not Simple

Some would suggest that the answers are simple — start with code analysis tools, add a few date routine libraries, some date simulation technology, test data generators, and a healthy dose of consulting services, and your problem is solved. Simple problem. Simple answers.

Others suggest the Year 2000 is the end of computing as we know it — that we should be scared. Very scared. That the complexity and cost of fixing this problem will bring the data processing industry to it's knees. Complex problem. Complex answers.

What The Experts Say...

25% or more of your IS budget will be required to fix this problem

Cost: over \$1 per line of code and climbing

A severe programmer shortage by 1998

Year 2000 is a "bet the company" proposition

At Compuware, we know that the Year 2000 issue, though easily understood, is inherently complex. We also know that there are no simple, "silver bullet" answers. Simple answers don't solve complex problems. Compuware's PRODUCTION 2000 is a real-world solution — one that helps you deal successfully with the enormous scope and complexity of Year 2000.

Production 2000 – A Real-World Solution

PRODUCTION 2000

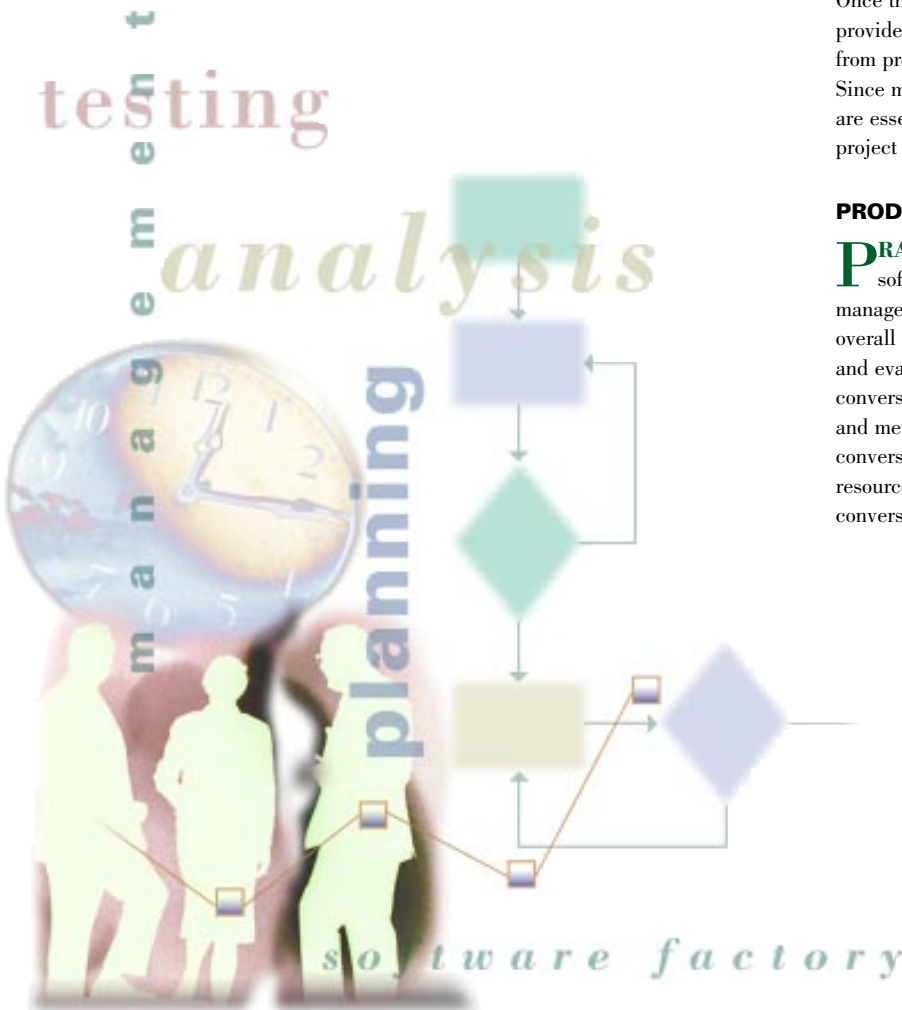
PRODUCTS offer high-impact productivity gains in the areas of analysis, data conversion, time-dimensional testing, system and regression testing, and production support. Products like XPEDITER, File-AID, QAHiperstation and others are in daily use at over 9,000 customer sites around the world.

PRODUCTION 2000

PEOPLE include over 3,500 Professional Services consultants who contribute to development and conversion projects for companies around the world. Compuware has implemented some of the industry's largest conversion projects. We customize an approach based on the results of impact analysis and the unique requirements of each customer. Once the process is established, we can provide a full range of Year 2000 services, from program conversions to testing. Since management and qualified skill sets are essential, we also provide Year 2000 project management and focused training.

PRODUCTION 2000

PRACTICES help you create a software conversion "factory" and manage the Year 2000 project with overall planning, systems identification and evaluation, detailed impact analysis, conversion techniques, cost estimates, and metrics. Compuware's own software conversion factories provide alternate resources for clients desiring to have conversions handled off site.



**PRODUCTION 2000
enables your resources**

Partnering with Compuware makes it possible for your Year 2000 efforts to be completed on-time and on-budget. In the end, however, no one is more qualified to complete the Year 2000 project than the people who already work for your organization. PRODUCTION 2000 offers mature products, expert consultants, and sound, repeatable processes to enable your IS team to get their conversion effort underway today.

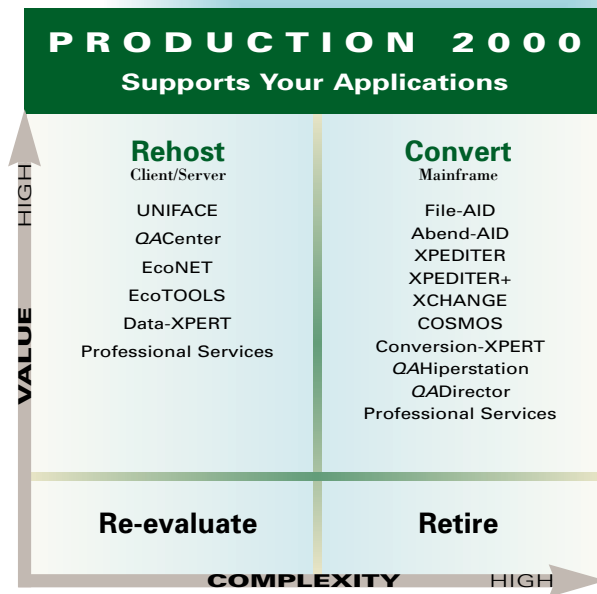
**PRODUCTION 2000
helps you manage risk**

Is it realistic to expect that you can convert all your applications before the Year 2000? Maybe not. That's why Compuware's approach helps by prioritizing your applications.

- Which systems are complex and significant revenue-generators? Those programs are immediate candidates for Year 2000 conversion.
- Which applications are equally important but less complicated? You may have time to implement these on alternative platforms. Our products and expertise can help rehost to client/server.
- Older programs with undetermined value? Reconsider their purpose for your business or perhaps retire the application. Once you've set application priorities, get moving right away. At the very least, these are the systems that must run without fail on January 1, 2000.

**PRODUCTION 2000
helps you leverage your
current investments**

You can use the tools, staff, and methodologies you already have to prepare for century-date compliance. We'll show you how to implement a concise, repeatable conversion process and use industry leading tools — like File-AID, XPEDITER, QAHiperstation, Abend-AID and others. These are practices and tools that will get you through the Year 2000 and serve you well into the next millennium.



Mainframe applications with high value and complexity are primary candidates for conversion. Less complex applications might best be rewritten for Client/Server platforms. Production 2000 offers powerful technology for both environments.

PRODUCTION 2000 – The Elements of Delivery

Production 2000 offers 5 packages of services and products to help you manage all phases of your conversion. Our top-down approach uses plans and output from each phase to facilitate the next one. We use Compuware products to ensure technology integration, but we are also well-versed with alternate tools you may already be using.

ManagePAC

With century-date compliance projects, you'll need to identify cost, staff requirements, conversion and testing strategies. Production 2000 employs Compuware's world class project management experience and the best tools in the business.

PrepPAC

This phase provides a high-level business analysis and project plan. It determines impacts, critical priorities, subject matter experts, and uses a sizing analysis and pilot project to create the ongoing software factory business model.

ConvertPAC

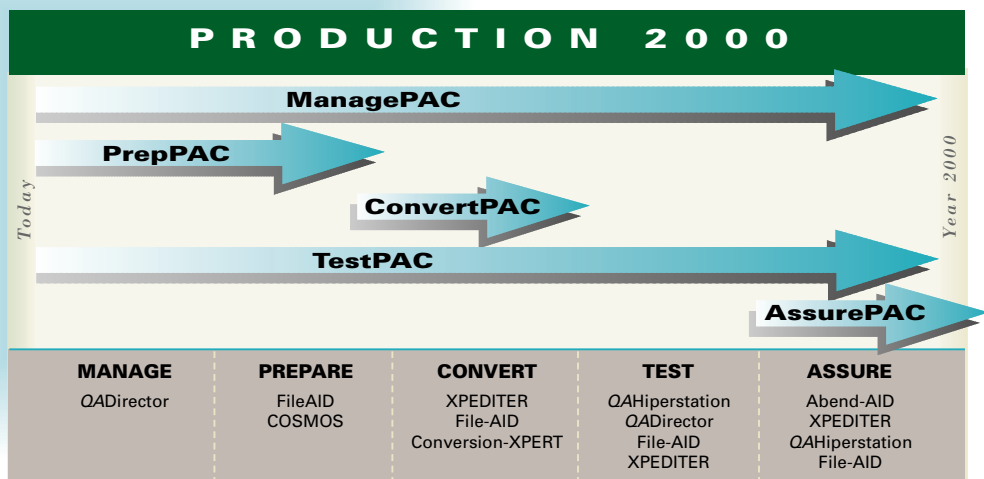
Update program logic and convert date fields for century-date compliance. This step relies heavily on the output from pre-conversion analysis to ensure that changes are quick and accurate — getting the job done fast and preparing you for testing.

TestPAC

Testing your applications is the most important phase of the Year 2000 project. TestPAC supports this phase right from the start with development of an overall test plan and process. Compuware's suite of industry-leading interactive and automated testing tools will help secure your applications for the next century.

AssurePAC

Once the changes are tested, it's time to move applications back into production. For a smooth transition and expert fault diagnosis, take advantage of the powerful combination of our proven production support products and staff.



Compuware – Here today, Here Tomorrow

Today—in fact, at this very moment—thousands of programmers around the world are using Compuware tools to ensure applications accuracy and reliability. And while many things are expected to change by the year 2000, Compuware plans to do exactly what we're doing today...helping those customers get through another day of keeping business-critical applications up and running.

A History of Answers — A Future of Achievements

Compuware has a 24-year history of providing crucial answers to companies who seek a higher level of success. As one of the largest independent software and services vendors in the world, Compuware has over 5500 employees offering products and services solutions. Over 200,000 copies of Compuware products are installed today, providing development, analysis, conversion and testing power to over 9,000 organizations around the world.

Our Customers Include:

FORTUNE 1000	73%
InformationWEEK TOP 500	84%
ComputerWORLD Premier 100	87%

Our Charter:

**To help our 9000 customers
realize Year 2000 benefits from
Compuware products they use
today. You probably already
have our technology in place.**



It's Countdown Time

Production 2000 works because it represents a focused business approach to solving a far-reaching problem.

It provides practical, real world answers that recognize you have a finite amount of time remaining to solve this problem, limited resources and money available, and a critical need to maintain your day-to-day computing requirements.

Meanwhile, you have more than a technology issue — you have a project management and personnel resource challenge. This is not the time to experiment with unfamiliar, complex tools and methodologies just for Year 2000.

It's time for PRODUCTION 2000 - products, people and practices to help keep your business-critical applications up and running. We'll be with you well past the Year 2000 to help ensure your application success far into the next millennium.



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